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(54) Title: METHODS OF SCREENING BASED ON THE EGF RECEPTOR CRYSTAL STRUCTURE

(57) Abstract: This invention relates to the structure of members of the epidermal growth factor (EGF) receptor family and to receptor/ligand interactions. In particular, it relates to the field of using the EGF receptor family structure to select and screen for compounds that inhibit the formation of active receptor dimers.

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## Methods of screening based on the EGF receptor crystal structure

#### Field of the Invention

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This invention relates to the structure of members of the epidermal growth factor (EGF) receptor family and to receptor/ligand interactions. In particular, it relates to the field of using the EGF receptor family structure to select and screen for compounds that inhibit the formation of active receptor dimers.

#### 10 Background of the Invention

Epidermal growth factor is a small polypeptide growth factor that stimulates marked proliferation of epithelial tissues and is a member of a larger family of structurally related growth factors such as transforming growth factor  $\alpha$  (TGF $\alpha$ ), amphiregulin, betacellulin, heparin-binding EGF and some viral gene products. Abnormal EGF family signalling is a characteristic of certain cancers (Yarden and Sliwkowski, 2001, Nature Reviews Mol Cell Biol. 2, 127-37; Soler and Carpenter, 1994 In Nicola, N. (ed) "Guidebook to Cytokines and their Receptors", Oxford Univ. Press, Oxford, pp194-197; Walker and Burgess, 1994, In Nicola, N. (ed) "Guidebook to Cytokines and their Receptors", Oxford Univ. Press, Oxford, pp198-201).

The epidermal growth factor receptor (EGFR) is the cell membrane receptor for EGF (Ullrich and Schlessinger, 1990, Cell 61, 203-212). The EGFR also binds other ligands that contain amino acid sequences classified as the EGF-like motif. Other known ligands of the EGFR are amphiregulin (Shoyab et al., 1988, Proc Natl Acad Sci U S A. 85: 6528-6532.; Shoyab et al., 1989, Science. 243: 1074-1076.), heparin-binding epidermal growth factor receptor (Higashiyama et al., 1991, Science. 251: 936-939.), betacellulin (Sasada et al., 1993, Biochem Biophys Res Commun. 190: 1173-1179; Shing et al.,1993, Science. 259: 1604-1607.), epiregulin (Toyoda et al., 1995, J Biol Chem. 270: 7495-7500; Toyoda et al., 1997, Biochem J. 326: 69-75.) and epigen (Strachan et al., 2001, J Biol Chem. 276: 18265-18271.). Among these ligands, the three-dimensional structures of EGF and  $TGF\alpha$  have been determined by NMR (Montelione et al., 1986 PNAS 83(22): 8594-8; Campbell et al., 1989, Prog. Growth Factor Res. 1, 13-22). Upon binding of the ligand to the extracellular domain, the EGFR undergoes dimerization, which eventually leads to the activation of its cytoplasmic protein tyrosine kinase (Ullrich and

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Schlessinger, 1990, Cell 61, 203-212). The EGFR is also known as the ErbB-1 receptor and belongs to the type I family of receptor tyrosine kinases (Ullrich, and Schlessinger, 1990, Cell 61, 203-212). This group also includes the ErbB-2, ErbB-3 and ErbB-4 receptors. No high affinity ligand has yet been found for ErbB-2 (Olayioye et al., 2000, EMBO J. 19: 3159-3167.). The neuregulins are alternatively spliced proteins from one of at least four genes which contain an EGF-motif and bind to ErbB-3 and/or ErbB-4 (Olayioye et al., 2000, EMBO J. 19: 3159-3167). One of the neuregulins known as heregulin-1 $\alpha$  or NDF was found to fold into an EGF-like fold by NMR (Nagata et al., 1994, EMBO J. 13, 3517-3523 and Jacobson et al., 1996, Biochemistry 36, 3402-3417). The EGFR ligands epiregulin, betacellulin and heparin-binding epidermal growth factor receptor also bind to ErbB-4 (Olayioye et al., 2000, EMBO J. 19: 3159-3167.)

The type II family of receptor tyrosine kinases consists of the insulin receptor (INSR), the insulin-like growth factor I receptor (IGF-1), and the insulin receptor-related receptor (Ullrich and Schlessinger, 1990, Cell 61, 203-212). Although the type II receptors consist of four chains ( $\alpha_2\beta_2$ ), both the extracellular portions of the receptors from the two families, as well as the tyrosine kinase portions, share significant sequence homology, suggesting a common evolutionary origin (Ullrich and Schlessinger, 1990, Cell 61, 203-212, and Bajaj et al., 1987, Biochim. Biophys. Acta 916, 220-226).

The 621 amino acid residues of the extracellular domain of the human EGFR (sEGFR) can be subdivided into four domains as follows: L1, S1, L2 and S2, where L and S stand for "large" and "small" domains, respectively (Bajaj et al., 1987, Biochim. Biophys. Acta 916, 220-226, see Fig. 2). The L1 and L2 domains are homologous, as are the S1 and S2 domains.

Ligand-induced dimerization was first reported for the EGF receptor (Schlessinger, 1980, Trends Biochem Sci 13, 443-447) and now is widely accepted as a general mechanism for the transmission of growth stimulatory signals across the cell membrane. Although many biochemical experiments have been performed to reveal the molecular mechanism of receptor dimerization (Lemmon et al., 1997, EMBO J. 16, 281-294 and Tzabar et al., 1997, EMBO J. 16, 4938-4950 and Lax et al., 1991, J. Biol. Chem. 266, 13828-13833), the molecular mechanism by which monomeric ligands induce dimerization is still unknown for members of the EGFR family. Single particle averaging of electron microscopic images suggests that the overall shape of

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the sEGFR is four-lobed and doughnut-like (Lax et al., 1991, J. Biol. Chem. 266, 13828-13833). Small angle x-ray scattering also indicates that the sEGFR can be approximated by a flattened sphere with long diameters of 110 Å and a short diameter of 20 Å (Lemmon et al., 1997, EMBO J. 16, 281-294). The crystallization of sEGFR in complex with EGF has been published (Günther et al., 1990, J. Biol. Chem. 265, 22082-22085; Degenhardt et al., 1998, Acta Crystallogr. D Biol. Crystallogr. 54:999-1001), but the structure has not yet been reported, despite a decade of effort by many groups.

One EGF receptor ligand, TGF- $\alpha$  has been observed to be overproduced in keratinocyte cells which are subject to psoriasis (Turbitt et al., 1990, J. Invest. Dermatol. 95(2), 229-232; Higashimyama et al., 1991, J. Dermatol., 18(2), 117-119; Elder et al, 1990, 94(1), 19-25). The overproduction of at least one other EGF receptor ligand, amphiregulin, has also been implicated in psoriasis. (Piepkorn, 1996, Am. J. Dermatopath., 18(2), 165-171). Molecules that inhibit the EGF receptor have been shown to inhibit the proliferation of both normal keratinocytes (Dvir et al, 1991, J. Cell Biol., 113(4), 857-865) and psoriatic keratinocytes. (Ben-Bassat et al., 1995, Exp. Dermatol., 4(2), 82-88). These findings indicate that EGF receptor antagonists may be useful in the treatment of psoriasis.

Many cancer cells express constitutively active EGFR (Sandgreen et al., 1990, Cell, 61:1121-135; Karnes et al., 1992, Gastroenterology, 102:474-485) or other EGFR family members (Hynes,1993, Semin. Cancer Biol. 4:19-26). Elevated levels of activated EGFR occur in bladder, breast, lung and brain tumours (Harris, et al., 1989, In Furth & Greaves (eds) The Molecular Diagnostics of human cancer. Cold Spring Harbor Lab. Press, CSH, NY, pp353-357). Antibodies to EGFR can inhibit ligand activation of EGFR (Sato et al., 1983 Mol. Biol. Med. 1:511-529) and the growth of many epithelial cell lines (Aboud-Pirak et al., 1988, J. Natl Cancer Inst. 85:1327-1331). Patients receiving repeated doses of a humanised chimeric anti-EGFR monoclonal antibody (Mab) showed signs of disease stabilization. The large doses required and the cost of production of humanised Mab is likely to limit the application of this type of therapy. These findings indicate that the development of EGF receptor antagonists will be attractive anticancer agents.

#### Summary of the Invention

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The present inventors have now obtained three-dimensional structural information concerning a complex of human epidermal growth factor receptor (EGFR) residues 1-501 with human TGFα. In the complex each ligand only contacts one receptor and each receptor fragment contacts only one ligand. The receptor dimer seen in the crystals is a back-to-back dimer (S1 to S1). The co-ordinates for the EGF receptor in back-to-back dimer configuration are shown in Appendix I and Appendix II. Appendix II is a refined version of the co-ordinates presented in Appendix I.

The information presented in this application can be used to predict the structure of related members of the EGF receptor family and the nature of the dimers formed by these receptors. This information can be used to develop compounds which interact with members of the EGF receptor family for use in therapeutic applications.

Accordingly, in a first aspect the present invention provides a method of selecting or designing a compound that interacts with a receptor of the EGF receptor family and modulates an activity associated with the receptor, the method comprising

- (a) assessing the stereochemical complementarity between the compound and a topographic region of the receptor, wherein the receptor comprises:
  - (i) amino acids 1-501 of the EGF receptor positioned at atomic coordinates as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å;
  - (ii) one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations; or
  - (iii) amino acids present in the amino acid sequence of a receptor of the EGF receptor family, which form an equivalent three-dimensional structure to that of amino acids 1-501 of the EGF receptor positioned at atomic coordinates substantially as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets thereof,

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- (b) obtaining a compound which possesses stereochemical complementarity to a topographic region of the receptor; and
- (c) testing the compound for its ability to modulate an activity associated with the receptor.

In a preferred embodiment of the first aspect, the structural coordinates have a root mean square deviation from the backbone atoms of said amino acids of not more than 1.0Å and more preferably not more than 0.7Å.

In one embodiment of the first aspect, the subset of amino acids is selected from the group consisting of the subset of amino acids representing the L1 domain, the subset of amino acids representing the L2 domain and the subset of amino acids representing the S1 domain.

In another embodiment, the subset of amino acids relates to a semi-rigid domain within the EGF receptor, such as a domain based on or about residues 1-84; 191-237; 238-271; 271-284; 285-305 or 313-501; or an equivalent domain of another member of the EGF receptor family.

By "stereochemical complementarity" we mean that the compound or a portion thereof makes a sufficient number of energetically favourable contacts with the receptor as to have a net reduction of free energy on binding to the receptor.

From the information provided in Appendix I and Appendix II it can be seen that TGF $\alpha$  interacts with residues 1-501 of EGFR such that residues 3-5, 22, 24, 26, 27, 29-34, 36, 38-41, 43, 44, 47 and 49 of TGF $\alpha$  interact with residues 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128 of L1 of EGFR and residues 8, 9, 11-15, 17, 18, 38, 39, 42 and 44-50 of TGF $\alpha$  interact with residues 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467 of L2 of EGFR.

Two residues or groups of residues are taken to "interact" when the solvent accessible surface calculated for one set of residues is reduced if it is recalculated in the presence of the other set of residues. The solvent accessible surface is defined by Lee. B and Richards, F. M. (1971) J. Mol. Biol. 55:379-400 using a probe radius of 1.4 Å.

The ligand binding surfaces of EGFR are therefore defined by residues 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128 of L1 and residues 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467 of L2. It is believed that corresponding

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regions of other members of the EGF receptor family will also be involved in the binding of their natural ligand.

Accordingly, in one embodiment of the first aspect the compound is selected or designed to interact with a member of the EGF receptor family in a manner such as to interfere with the binding of natural ligand to:-

- (i) one or more of the residues of EGFR selected from the group consisting of 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127, 128, 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467 and combinations thereof; or
- (ii) the corresponding region of other members of the EGF receptor family.

The compound may interfere with ligand binding to one or more of the specified residues in a number of ways. For example the compound may bind or interact with the receptor at or near one or more of the specified residues or corresponding regions and by steric overlap and/or electrostatic repulsion prevent natural ligand binding. Alternatively the compound may bind to the receptor so as to interfere allosterically with natural ligand binding. For example the compound may bind to the L1 and L2 domains in manner such as to decrease the "gap" between the L1 and L2 domains thereby preventing access of the ligand to one or more of the specified residues.

Alternatively the compound may bind to the receptor so as to interfere allosterically with natural ligand binding. For example:-

- (i) The compound may bind to the L1 and L2 domains in manner such as to decrease the "gap" between the L1 and L2 domains thereby preventing access of the ligand to one or more of the specified residues.
- (ii) The compound may bind at or near the interface between S1 and either L1 or L2 domains to thereby perturb the domain associations as shown in Appendix I and II for the signalling competent ligand-receptor complex.
- (iii) The compound may bind at a site remote from the ligand-binding site but disturb the receptor structure so as to reduce the affinity of ligand binding.

Sites for allosteric interference lie within 5 Å of atomic positions listed in Appendices III and IV.

It is presently preferred, however, that the compound binds or interacts with the receptor at or near one or more of the specified residues or within the corresponding region.

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Accordingly in one embodiment of the first aspect, the receptor is EGFR and topographic region of EGFR to which the compound has stereochemical complementarity is the ligand binding surface defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.

The phrase "EGF receptor family" includes, but is not limited to, the EGF receptor, ErbB3 and ErbB4. In general, EGF receptor family molecules show similar domain arrangements and share significant sequence identity, preferably at least 40% identity.

The known natural ligands for these receptors are as follows:

	EGFR	EGF, TGFα, amphiregulin, betacellulin, epiregulin and
		heparin-binding EGF;
	ErbB3	neuregulins 1 and 2;
15	ErbB4	neuregulins 1-4, betacellulin, epiregulin and
		heparin-binding EGF;
	ErbB2	ErbB2 alone has not been reported to bind any ligand with
		high affinity but is preferred heterodimerisation partner for
		the other three EGF receptor family members, enhancing
20		their affinities for their respective ligands and amplifying
		their signals.

The domain structure of the extracellular regions of the EGFR, ErbB-2, ErbB-3 and ErbB-4 are the same. The percentage identities of the sequences corresponding to the first 501 residues of the EGFR are 42-47 % except for that for ErbB-3 and ErbB-4 which is 60 %. Previously, it has been possible to construct models of ErbB-2, ErbB-3 and ErbB-4 based on the structure of the first three domains of the insulin-like growth factor receptor (Garrett et al., (1998) *Nature*. 394: 395-399.) as has been performed for the EGFR (Jorissen et al., (2000) *Protein Sci.* 9: 310-324.) where the sequence identity is approximately 25%. At the higher sequence identity between EGFR and the other EGFR family members, models can be constructed which are expected to have a smaller degree of error (Tramontano A. (1998) *Methods*. 14: 293-300).

A sequence alignment between the four EGFR family members is shown in Figure 1. Using the information provided in Appendix I Appendix II and the sequence alignment models of other members of the EGF receptor family can be obtained using the methods described in the reference referred to above.

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The structure of the TGF $\alpha$ - EGFR complex also allows construction of the binding of EGFR family ligands to be modelled. Several interactions between TGF $\alpha$  and the sEGFR501 suggest that the observed mode of binding is the same for the EGFR family members and their ligands. There are two mainchain-to-mainchain hydrogen bonds between the EGFR L1 domain and TGF $\alpha$ :EGFR Gln 16.N - TGF $\alpha$  Cys 32.O and Gln 16.O - TGF $\alpha$  Cys 34.N. The sidechain of conserved TGF $\alpha$  residue Arg 42 forms a salt bridge with the sidechain of conserved EGFR residue Asp 355.

The sequence alignment of ligands for EGF receptor family is set out in Figure 2.

The approximate ligand binding regions of ErbB-2, ErbB-3 and ErbB-4 can be deduced using the alignment of their sequences to that of the EGFR (Figure 1) and the EGFR sequences listed earlier (residues 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127, 128, 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467). For ErbB-2 (whose N-terminal sequence is taken to be STQV), these residues are 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135, 136, 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475. For ErbB-3 (whose N-terminal sequence is taken to be SEVG), these residues are 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131, 132, 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466. For ErbB-4 (whose N-terminal sequence is taken to be QPSD), these residues are 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468. (Note that the Ntermini correspond to the putative start of the mature proteins according to their entries in the SWISSPROT database at the time of writing.) There are expected to be minor differences in the amino acids of the EGFR family member (including EGFR) which make up the ligand binding site depending on the identity of the ligand and receptor. For example, the EGFR residue Gly 442 is not listed as part of the binding site for bound TGF $\alpha$  but has been implicated in the binding of EGF (Elleman et al., (2001) Biochemistry. 40: 8930-8939.). A comparative model of the EGF - EGFR 1-501 complex shows that part of the sidechain of EGF residue Arg 45 is close to EGFR Gly 442. (The small size of the TGF $\alpha$  Ala 46 sidechain prevents this contact in the TGF $\alpha$  - bound complex.) Other variations in the definition of the ligand binding site for the modelled

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EGFR family member - ligand complex may arise from the variation in the size of the so-called B-loop of some of the EGFR family ligands (Groenen et al., (1994) *Growth Factors*.11: 235-257.).

In a preferred embodiment of the first aspect of the present invention, the method comprises selecting or designing a compound which has portions that match residues positioned on the ligand binding surface of EGFR defined by amino acids 11-18, 20, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface of EGFR defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438 and 465, or the corresponding regions of other members of the EGF receptor family.

By "match" we mean that the identified portions interact with the surface residues, for example, via hydrogen bonding or by enthalpy-reducing Van der Waals and Coulomb interactions which promote desolvation of the biologically active compound with the receptor, in such a way that retention of the compound by the receptor is favoured energetically.

In a further preferred embodiment of the first aspect, the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-6</sup>M, more preferably the Kd value is less than 10<sup>-8</sup>M and more preferably less than 10<sup>-9</sup>M.

In preferred embodiments of the first aspect of the present invention, the compound is selected or modified from a known compound identified from a data base.

A second aspect of the present invention provides a method of selecting or designing a compound that inhibits the formation of active dimers of receptors of the EGF receptor family, the method comprising:

- (a) assessing the stereochemical complementarity between the compound and a topographic region of the receptor, wherein the receptor comprises:
  - (i) amino acids 1-501 of the EGF receptor positioned at atomic coordinates as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å;
  - (ii) one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations; or

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- (iii) amino acids present in the amino acid sequence of a receptor of the EGF receptor family, which form an equivalent three-dimensional structure to that of amino acids 1-501 of the EGF receptor positioned at atomic coordinates substantially as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets thereof,
- (b) obtaining a compound which possesses stereochemical complementarity to a topographic region of the receptor; and
- (c) testing the compound for its ability to inhibit the formation of active dimers of the receptors.

From the information provided in Appendix I and Appendix II it can also be seen that in the EGF dimer residues 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 of the first receptor of the dimer interact with residues 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287 of the second receptor of the dimer. It is believed that corresponding regions of other members of the EGF receptor family will also be involved in the formation of active dimers.

Accordingly, in a further preferred form the compound is selected or designed to interact with a member of the EGF receptor family in a manner such as to interfere with the formation of active dimers by inhibiting interaction of;

- (i) residues 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 of EGFR or the corresponding region of a member of the EGF receptor family; with
- (ii) residues 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287 of EGFR or the corresponding region of a member of the EGF receptor family.

The compound may interfere with dimerization in a number of ways. For example the compound may bind to the EGFR at or near one or more of the specified residues and by steric overlap an/or electrostatic repulsion prevent dimerization. Alternatively the compound may bind to EGFR so as to interfere allosterically with dimer formation.

Accordingly in one preferred embodiment of the second aspect, the receptor is EGFR and the topographic region of the EGFR to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.

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The regions of ErbB-2, ErbB-3 and ErbB-4 involved in dimerization can also be deduced using the alignment of their sequences to that of the EGFR (Figure 1) and the EGFR sequences listed earlier (residues 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288, 318). For ErbB-2 (whose N-terminal sequence is taken to be STQV), these residues are 36, 84, 201- 203, 211, 212, 236, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295, 326. For ErbB-3 (whose N-terminal sequence is taken to be SEVG), these residues are 41, 89, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287, 317. For ErbB-4 (whose N-terminal sequence is taken to be QPSD), these residues are 40, 88, 195-197, 206, 207, 231, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289, 319. (Note that the N-termini correspond to the putative start of the mature proteins according to their entries in the SWISSPROT database at the time of writing.)

The mode of dimerization seen in the crystal structure is consistent with homodimers and heterodimers of all four EGFR family members. Several residues which appear to be important for maintaining the dimer interface in EGFR are conserved in the EGFR family. The conserved Asn 247 makes sidechain-to-mainchain hydrogen bonds which help to maintain the structure of the loop which interacts with the other EGFR molecule in the dimer. Residues Tyr 251 and Phe 263 are involved in packing interactions across the interface; these residues are either tyrosine or phenylalanine in ErbB-2, ErbB-3 and ErbB-4. The side chain of the conserved residue Tyr 246 makes hydrophobic packing and hydrogen bonding interactions with the other EGFR in the dimer.

As used herein the term "dimer" is intended to cover both homodimers and heterodimers.

By "active dimer" we mean a dimeric form which causes signalling.

In a further embodiment of the second aspect of the present invention, the method comprises selecting or designing a compound which has portions

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that match residues positioned on the dimer interface of EGFR defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 or the corresponding regions of other members of the EGF receptor family and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287 or the corresponding regions of other members of the EGF receptor family.

In a preferred embodiment the compound is designed or selected to comprise a first domain which interacts with the dimer interface of a first EGF receptor family member and a second domain which interacts with the dimer interface of a second EGF receptor family member. As will be recognised such a compound will cross-link receptor and prevent formation of active dimers.

In a further preferred embodiment of the second aspect of the present invention, the stereochemical complementarity is such that the compound has a  $K_d$  for the receptor site of less than  $10^{-6}M$ . More preferably, the  $K_d$  value is less than  $10^{-8}M$  and more preferably less than  $10^{-9}M$ .

In preferred embodiments of the second aspect of the present invention, the compound is selected or modified from a known compound identified from a data base.

The information provided in Appendix I and Appendix II also reveals the portions of  $TGF\alpha$  which are involved in receptor binding. With this information  $TGF\alpha$  variants may be designed in which specific residues are modified or altered such that the variant retains is able to bind to one ligand binding surface but not the other. It would be expected that such a variant would compete with the natural ligand for binding to the receptor but that binding of the variant to the receptor would not lead to signalling. Such a variant would therefore be an antagonist. In a similar manner variants which would act as agonists could be designed. In this case the modifications or alterations would be selected such as to increase the strength of interaction between the receptor and the variant so as to lead to increased signalling.

In a similar manner to that described for  $TGF\alpha$ , variants of other ligands of the EGF receptor family may also be designed.

Accordingly in a third aspect the present invention consists in a  $TGF\alpha$  variant in which the sequence of  $TGF\alpha$  is modified such that the ability to interact with L1 of EGFR is retained or increased and the ability to interact with L2 of EGFR is removed or decreased, or *vice versa*.

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In a fourth aspect the present invention consists in a  $TGF\alpha$  variant in which the sequence of  $TGF\alpha$  is modified such that the ability to interact with L1 of EGFR is retained or increased and the ability to interact with L2 of EGFR is retained or increased, with the proviso that the binding to at least one of L1 or L2 is increased.

In a preferred embodiment of these aspects of the present invention the  $TGF\alpha$  variant is modified at one more of the positions selected from the group consisting of 3-5, 8, 9, 11-15, 17, 18, 22, 24, 26, 27, 29-34, 36 and 38-50.

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In a fifth aspect the present invention consists in an EGF variant in which the sequence of EGF is modified such that the ability to interact with L1 of EGFR is retained or increased and the ability to interact with L2 of EGFR is removed or decreased, or *vice versa*.

In a sixth aspect the present invention consists in an EGF variant in which the sequence of EGF is modified such that the ability to interact with L1 of EGFR is retained or increased and the ability to interact with L2 of EGFR is retained or increased, with the proviso that the binding to at least one of L1 or L2 is increased.

By "variant" we mean that the natural sequence of EGF or TGF $\alpha$  has been modified by one or more point mutations, insertions of amino acids, deletions of amino acids or replacement of amino acids, in particular using non-natural amino acids such as D-isomers of natural amino acids, 2,4-diaminobutyric acid,  $\alpha$ -amino isobutyric acid, 4-aminobutyric acid, 2-aminobutyric acid, 6-amino hexanoic acid, 2-amino isobutyric acid, 3-amino propionic acid, ornithine, norleucine, norvaline, hydroxyproline, sarcosine, citrulline, homocitrulline, cysteic acid, t-butylglycine, t-butylalanine, phenylglycine, cyclohexylalanine,  $\beta$ -alanine, fluoro-amino acids, designer amino acids such as  $\beta$ -methyl amino acids,  $C\alpha$ -methyl amino acids,  $N\alpha$ -methyl amino acids,  $\beta$ -naphthalimo amino acids and amino acid analogues in general.

The information provided in Appendix I and Appendix II also reveals the portions of EGFR which are involved in dimer formation and the portions EGFR involved in ligand binding. With this information EGFR variants or fragments may be designed in which specific residues are modified or altered such that the variant or fragment retains the ability to form dimers with the EGFR and or bind ligand. It would be expected that such variant or fragments would compete with the natural receptors for dimerization or ligand binding but that

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dimerization of the variant or fragment with the receptor would not lead to signalling.

Accordingly in a seventh aspect the present invention consists in a polypeptide, the polypeptide comprising amino acids which interact with amino acids 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288, 318 of EGFR or the corresponding region of a member of the EGF receptor family, or which are involved in binding of natural ligand of the EGF receptor family.

In a preferred embodiment the polypeptide is based on the native sequence of EGFR but includes modifications such that the interaction between the polypeptide and the native receptor is preferred over the interaction between native receptors.

In a further preferred embodiment the polypeptide is based on the native sequence of EGFR but includes modifications such that the interaction between the polypeptide and the natural ligand is preferred over the interaction between the natural ligand and native receptor.

As will be understood by those skilled in this field knowledge of the structure of a protein complex is of assistance in the development of mutants of one of the proteins with enhanced affinity for its protein partner. Structural information can be used to select residues on one or more of the protein interfaces in the complex for alteration by methods such as site-directed mutagenesis or phage display. For example, amino acid positions in growth hormone which were allowed to vary were chosen in part from the crystal structure of the complex of growth hormone bound to two molecules of the human growth hormone extracellular region (Lowman and Wells (1993) J Mol Biol. 234: 564-578.). Using a model of the granulocyte colony-stimulating factor (G-CSF) receptor ligand binding domain, residues of the receptor were chosen for mutagenesis by analogy with the structure of human growth hormone bound to its receptors (Layton et al., (1997) J Biol Chem. 272: 29735-29741.). Some of the mutant G-CSF receptors were found to bind G-CSF with slightly enhanced affinity (Layton et al., (1997) J Biol Chem. 272: 29735-29741.). The structure of the complex could also be used to design mutations which would potentially increase the binding affinity, for example by increasing the amount of hydrogen bonds and/or van der Waals interactions across the interface.

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The modification of protein residues to enhance protein binding affinity is not restricted to those residues in the relevant protein-protein interfaces. Modification of residues outside of an interface may lead to alterations due to changes in the long-range electrostatic interactions between the two interacting proteins which changes the rate of association and subsequently the equilibrium binding constant (Selzer and Schreiber (1999) *J Mol Biol.* 287: 409-419.; Selzer et al., (2000) *Nat Struct Biol.* 7: 537-541.). The contribution of mutations to the association rate can be calculated and has been used to increase the association rate (without greatly changing the dissociation rate) and the affinity of  $\beta$ -lactamase inhibitory protein to TEM1  $\beta$ -lactamase by a factor of 250 (Selzer et al., (2000) *Nat Struct Biol.* 7: 537-541.).

There are two proposed modes of antagonist action of appropriate extracellular fragments of EGFR family members. The first is ligand binding. The sEGFR501 binds EGF and TGFα with approximately 10 times higher affinity than the full length extracellular portion of the EGFR (Elleman et al., (2001) *Biochemistry*. 40: 8930-8939.). The second mode is the association of these proteins with full-length receptors. Recombinant forms of the EGFR and ErbB-2 which contain only the extracellular domain and transmembrane domain are able to inhibit EGF-induced signalling when expressed on cells which also express the full length EGF receptor (Kashles et al., (1991) *Mol Cell Biol*. 11: 1454-1463; Spivak-Kroizman et al., (1992) *J Biol Chem*. 267: 8056-8063; Qian et al., (1999) *J Biol Chem*. 274: 574-583.), suggesting that the recombinant proteins act in a dominant negative manner which involves their extracellular regions.

The structure of the EGFR complex can be used to design mutations for extracellular fragments of EGFR family. Structural models of the other EGFR family members can be constructed as previously described. Mutations can be made either by expressing mutant versions of EGFR 1-501 or its homologues in which residues have been mutated individually or as groups, or by using the structure to locate amino acid positions which can be changed using methods such as phage display or DNA shuffling. These mutants can be tested or selected for enhanced affinity relative to the extracellular fragment based on the wild type EGFR family member's amino acid sequence. The preferred EGFR amino acids which are candidates for mutation are as follows:-

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- (i) 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127, 128, 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467, or
- (ii) 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288, 318.

The relevant residues for other members of the EGF receptor family can be determined from sequence alignments.

Additionally, the mutation of residues which are outside of the relevant binding interface may also alter the binding affinity by changes in the long range electrostatic interactions. These changes can affect the rate of association between two interacting proteins without greatly changing the rate of dissociation, and hence change the equilibrium binding constant (Selzer and Schreiber (1999) J Mol Biol. 287: 409-419.; Selzer et al., (2000) Nat Struct Biol. 7: 537-541.). In one example of increasing the affinity of binding by mutating residues outside of the protein-protein interface, selected residues of the βlactamase inhibitory protein that were outside of the interface were mutated so as to change their charge e.g. a basic residue mutated to a neutral residue and then the affinity and rate constants of the mutant binding to TEM1 β-lactamase was measured. In one mutant, the change of four amino acids led to an enhancement of binding by a factor of more 250-fold (Selzer et al., (2000) Nat Struct Biol. 7: 537-541.). In this example, the authors specified a formula which predicted the changes in the association constant upon mutation to within a factor of two (Selzer et al., (2000) Nat Struct Biol. 7: 537-541.). In this way, the structure of the EGFR or a model of one other EGFR family members could be used to predict mutations that would likely lead to an enhancement of the rate of association of the relevant EGFR family extracellular fragment to its interacting protein. Calculation and subsequent visualization of the electrostatic isopotentials (e.g. Smith and Treutlein (1998) Protein Sci. 7: 886-896.) may assist the selection of residues to mutate in order to increase the protein's rate of association. The most likely candidate residues for mutation are those on the periphery of the interface and those outside of the interface but which are within a specified distance of the interacting protein and are not completely buried in the L1 or L2 domain (as judged by visual examination). Cysteine residues, which are needed for the maintenance of the EGFR structure were also excluded from the list. For the EGFR, the preferred residues are:

(i) 5, 6, 8-10, 19, 21-25, 28, 32, 33, 38, 39, 40, 42, 44, 47, 48, 50, 63, 64, 66, 68, 71, 73, 87, 88, 91-94, 96, 104-107, 109, 123, 130, 131, 151-160, 315-324, 326, 328, 329, 331, 332, 343, 344, 351, 359-363, 379, 380, 385, 387, 388, 394, 404-407, 410, 413, 420, 434-436, 440, 441, 443, 448, 449, 461-464, 466-468; or
(ii) 1-6, 8,9, 11, 30, 35, 36, 39, 40, 60, 62-64, 82, 84, 85, 87-89, 94, 118, 120-122, 148, 187-193, 196-198, 200-203, 209-211, 213, 215, 217-221, 231-233, 235, 237, 238, 241, 243, 244, 247, 254-261, 266, 268-270, 272-274, 276, 277, 281, 289-297, 299-301, 303, 304, 311, 312, 314-317,

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The relevant residues for other members of the EGF receptor family can be determined from sequence alignments.

319-323, 335, 340, 342-344, 346, 376, 378-380, 403-412, 434, 459.

In an eighth aspect the present invention provides computer-assisted method for identifying potential compounds able to interact with a member of the EGF receptor family and thereby modulate an activity mediated by receptor, using a programmed computer comprising a processor, an input device, and an output device, comprising the steps of:

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data comprising the atomic coordinates of amino acids 1-501 of the EGF receptor molecule as shown in Appendix I, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets of said amino acids, or one or more subsets of said amino acids related to the coordinates shown in Appendix I by whole body translations and/or rotations;

(a) inputting into the programmed computer, through the input device,

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(b) generating, using computer methods, a set of atomic coordinates of a structure that possesses stereochemical complementarity to the atomic coordinates of amino acids 1-501 of the EGF receptor molecule as shown in Appendix I, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets of said amino acids, or one or more subsets of said amino acids related to the coordinates shown in Appendix I by whole body translations and/or rotations, thereby generating a criteria data set;

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(c) comparing, using the processor, the criteria data set to a computer database of chemical structures;

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- (d) selecting from the database, using computer methods, chemical structures which are similar to a portion of said criteria data set; and
- (e) outputting, to the output device, the selected chemical structures which are complementary to or similar to a portion of the criteria data set.

In a preferred embodiment of the eighth aspect the subset of amino acids are the amino acids (i) defining either or both the ligand binding surface(s), or (ii) defining dimerization interface.

In a further preferred embodiment the method is used to identify potential compounds which have the ability to decrease an activity mediated by the receptor.

In a further preferred embodiment of the eighth aspect, the method further comprises the step of selecting one or more chemical structures from step (e) which interact with a member of the EGF receptor family in a manner such as to interfere with the binding of natural ligand to:-

- (i) one or more of the residues of EGFR selected from the group consisting of 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127, 128, 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467 and combinations thereof; or
- (ii) the corresponding region of other members of the EGF receptor family.

In a further preferred embodiment of the eighth aspect, the method further comprises the step of selecting one or more chemical structures from step (e) which interact with one or more of the residues of EGFR selected from the group consisting of amino acids 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288, 318 or the corresponding region of other members of the EGF receptor family.

In a further preferred embodiment of the eighth aspect, the method further comprises the step of obtaining a compound with a chemical structure selected in steps (d) and (e), and testing the compound for the ability to decrease an activity mediated by the receptor.

The present invention also provides a method of screening of a putative compound having the ability to modulate the activity of a molecule of the EGF receptor family, comprising the steps of identifying a putative compound by a method according to the first or third aspects, and testing the compound for the ability to increase or decrease an activity mediated by the molecule. In one

embodiment, the test is carried out *in vitro*. Preferably, the *in vitro* test is a high throughput assay. In another embodiment, the test is carried out *in vivo*.

In a ninth aspect the present invention provides a computer for producing a three-dimensional representation of a molecule or molecular complex, wherein the computer comprises:

- (a) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein the machine readable data comprise the atomic coordinates of amino acids 1-501 of the EGF receptor molecule as shown in Appendix I, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets of said amino acids, or one or more subsets of said amino acids related to the coordinates shown in Appendix I by whole body translations and/or rotations;
- (b) a working memory for storing instructions for processing the machine-readable data;
- (c) a central-processing unit coupled to the working memory and to the machine-readable data storage medium, for processing the machine-readable data into the three dimensional representation; and
- (d) an output hardware coupled to the central processing unit, for receiving the three-dimensional representation.

In a preferred embodiment of the ninth aspect the subset of amino acids are the amino acids (i) defining either or both the ligand binding surface(s), or (ii) defining dimerization interface.

In a tenth aspect the present invention provides a compound able to interact with a member of the EGF receptor family and to modulate an activity mediated by the receptor, the compound being obtained by a method according to the present invention.

In a preferred embodiment of the tenth aspect, the compound is a mutant of the natural ligand of a receptor of the EGF receptor family, where at least one mutation occurs in the region of the natural ligand which interacts with the receptor.

In an eleventh aspect the present invention provides a compound which possesses stereochemical complementarity to a topographic region of a

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molecule of the EGF receptor family and modulates an activity mediated by the molecule, wherein the molecule is characterised by

- (i) amino acids 1-501 of the EGF receptor positioned at atomic coordinates as shown in Appendix I, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å;
- (ii) one or more subsets of said amino acids related to the coordinates shown in Appendix I by whole body translations and/or rotations, or
- (iii) amino acids present in the amino acid sequence of a member of the EGF receptor family, which form an equivalent three-dimensional structure to that of the receptor site defined by amino acids 1-501 of the EGF receptor positioned at atomic coordinates substantially as shown in Appendix I;

with the proviso that the compound is not a naturally occurring member of the EGF receptor family or a mutant thereof.

By "mutant" we mean a ligand which has been modified by one or more point mutations, insertions of amino acids or deletions of amino acids.

In one embodiment of the eleventh aspect, the topographic region of the molecule is defined by is the ligand binding surface defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128 and/or the ligand binding surface defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467 or the corresponding regions of a member of the EGF receptor family.

In another embodiment of the eleventh aspect, the topographic region of the EGFR is defined by the dimerization interface defined by amino acids 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288, 318.

In preferred embodiments of the tenth and eleventh aspects, the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-6</sup>M, more preferably less than 10<sup>-8</sup>M.

In other embodiments of the tenth and eleventh aspects, the compound decreases an activity mediated by the EGF receptor.

In a twelfth aspect, the present invention provides a pharmaceutical composition for preventing or treating a disease associated with signaling by a molecule of the EGF receptor family which comprises a compound according to

the ninth or tenth aspects of the present invention and a pharmaceutically acceptable carrier or diluent.

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In a thirteenth aspect the present invention provides a method of preventing or treating a disease associated with signaling by a molecule of the EGF receptor family which method comprises administering to a subject in need thereof a compound according to the ninth or tenth aspects of the present invention. Preferably, the disease is selected from psoriasis and tumour states comprising but not restricted to cancer of the breast, brain, colon, prostate, ovary, cervix, pancreas, lung, head and neck, and melanoma, rhabdomyosarcoma, mesothelioma, squamous carcinomas of the skin and glioblastoma.

In a fourteenth aspect, the present invention provides a method for evaluating the ability of a chemical entity to bind to EGFR, said method comprising the steps of:

- (a) creating a computer model of at least one region of EGFR using structure coordinates wherein the root mean square deviation between said structure coordinates and the structure coordinates of amino acids 1-501 of EGFR as set forth in Appendix I or Appendix II is not more than about 1.5 Å;
- (b) employing computational means to perform a fitting operation between the chemical entity and said computer model of the binding surface; and
- (c) analysing the results of said fitting operation to quantify the association between the chemical entity and the binding surface model.

In one embodiment of the fourteenth aspect of the invention the region of EGFR is selected from the group consisting of the ligand binding surface defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128 and/or the ligand binding surface defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438 and 465 and a combination thereof.

In another embodiment of the fourteenth aspect the region of EGFR is the dimerization interface defined by amino acids 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318.

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In a fifteenth aspect the present invention consists in a polypeptide complex in a crystallized form comprising the amino acids 1-501 of EGFR and  $TGF\alpha$ .

It will be appreciated that isolated dimers of compounds comprising extracellular fragments of members of the EGF receptor family (e.g. dimers of fragment 1-501 of EGFR) in the back-to-back configuration may be useful therapeutic agents given their ability to compete with natural receptors for binding to ligands of the EGF receptor family.

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Accordingly, in a sixteenth aspect the present invention provides a compound comprising fragment 1-501 of EGFR or an equivalent fragment of a member of the EGF receptor family, wherein the fragment is modified to induce dimerisation of the fragment in back-to-back configuration.

In one embodiment, the modification is made to a residue of the fragment which forms part of the back-to-back dimer interface. More preferably, the modification involves substitution of at least one residue which forms part of the back to back dimer with a cysteine residue. The substitution may be P248C and/or A265C. Alternatively, the substitution may be D279C.

In another embodiment of the sixteenth aspect, the modification involves insertion of a dimerization sequence into the fragment. A "dimerization" sequence allows the non-covalent association of one binding domain to another, with sufficient affinity to remain associated under normal physiological conditions.

Suitable dimerization domains that can be used in the context of the present invention would be known to those skilled in the art, or may be readily identified using standard methods such as the yeast two hybrid system and traditional biochemical affinity binding studies. For example, an in vivo library-versus-library selection of optimized protein-protein interactions is described in Pelletier et al., (1999) Nature Biotechnology 17, 683.

Suitable dimerization sequences may be derived, for example, from Jun and Fos, which are sequence specific DNA binding proteins that regulate transcription. Each protein has a bipartite DNA-binding domain consisting of an amphipathic helix that mediates dimerization through formation of a short coiled structure, termed a "leucine zipper". Suitable dimerization pairs for use in the present invention may include the leucine zipper of Jun or Fos and a protein sequence that reacts with this leucine zipper. A method for identifying

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mammalian proteins that react with the leucine zipper of Jun is described in Chevray & Nathans, (1992) Proc. Natl. Acad. Sci. USA 89, 5789.

Suitable dimerization sequences for use in the present invention also include:

- (i) Heterodimeric coiled-coil peptide pairs as described in Arndt et al., (2000) J. Mol. Biol. 295, 627;
- (ii) The WW domain and ligands that bind thereto (see Dalby et al., (2000) Prot. Sci. 9, 2366);
- (iii) The bacterial nucleoid-associated proteins H-NS and StpA which form homomeric or heteromeric complexes (see Dorman et al., (1999) Trends Microbiol. 7, 124); and
  - (iv) Antibody domains, such as the first constant domain ( $C_H1$  and  $C_L$ ) of an IgG1 (see, for example, Mueller et al., (1998) FEBS Lett 422, 259).

In one embodiment, the dimerization sequence is inserted between residues 194 and 195 or between residues 204 and 205 of EGFR or equivalent residues of another member of the EGF receptor family.

In yet another embodiment of the sixteenth aspect, the modification involves the lengthening of an appropriate loop structure (e.g. a loop within the S1 domain) which may then be cross-linked with the corresponding loop or a different loop of the dimer partner by a linker. The linker may be, for example, a disulphide bond. The lengthening of the loop may be achieved, for example, by the insertion of additional residues between residues 210 and 211 or between residues 297 and 298 of EGFR or the equivalent residues of another member of the EGF receptor family.

In another embodiment of the sixteenth aspect, the fragment is conjugated to a molecule. The molecule may be, for example, a constant domain of an immunoglobulin molecule.

The present invention also encompasses compounds of the sixteenth aspect in dimer form.

The information provided in Appendix I and II also shows that there are a number of loop structures in the EGFR. From the three dimensional structure antibodies directed against these would interfere with binding of the natural ligand to the receptor or with the formation of active dimers.

Accordingly in a seventeenth aspect the present invention consists in an antibody which binds to EGFR, the antibody being directed against (i) EGFR residues 100-108, 315-327 or 353-362; or (ii) EGFR residues 190-207, 240-305

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or parts thereof or the corresponding regions of a member of the EGF receptor family.

Antibodies of the present invention may be produced, for example, by immunizing mice with purified EGFR fragment 1-501. After determining that the mice are producing anti-EGFR antibodies, hybridomas may be prepared and antibody specificity assayed by ELISA or Flow Cytometry using two cell lines: Baf/wt-EGFR cells and Baf/EGFR-"mutation x" cells. These mouse cell lines express either the wild type EGFR or the EGFR containing an Ala substitution ( ie mutation x) within the specific site against which the antibody is to be directed. When hybridomas secreting antibodies which recognize Baf/wt-EGFR, but not Baf/EGFR-"mutant x" are identified, the corresponding hybridoma may be cloned and the monoclonal antibody purified.

Alternatively, in raising antibodies of the invention, it may be desirable to use derivatives of the peptides or loop structures which are conformationally constrained. Conformational constraint refers to the stability and preferred conformation of the three-dimensional shape assumed by a peptide. Conformational constraints include local constraints, involving restricting the conformational mobility of a single residue in a peptide; regional constraints, involving restricting the conformational mobility of a group of residues, which residues may form some secondary structural unit; and global constraints, involving the entire peptide structure.

The active conformation of the peptide may be stabilized by a covalent modification, such as cyclization or by incorporation of gamma-lactam or other types of bridges. For example, side chains can be cyclized to the backbone so as create a L-gamma-lactam moiety on each side of the interaction site. See, generally, Hruby et al., "Applications of Synthetic Peptides," in Synthetic Peptides: A User's Guide: 259-345 (W. H. Freeman & Co. 1992). Cyclization also can be achieved, for example, by formation of cystine bridges, coupling of amino and carboxy terminal groups of respective terminal amino acids, or coupling of the amino group of a Lys residue or a related homolog with a carboxy group of Asp, Glu or a related homolog. Coupling of the alpha-amino group of a polypeptide with the epsilon-amino group of a lysine residue, using iodoacetic anhydride, can be also undertaken. See Wood and Wetzel, 1992, Int'l J. Peptide Protein Res. 39: 533-39.

Further the conformation of the peptide analogues may be stabilised by including amino acids modified at the alpha carbon atom (eg.  $\alpha$ -amino-150-

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butyric acid) (Burgess and Leach, 1973, Biopolymers 12(12):2691-2712; Burgess and Leach, 1973, Biopolymers 12(11):2599-2605) or amino acids which lead to modifications on the peptide nitrogen atom (eg. sarcosine or N-methylalanine) (O'Donohue et al, 1995, Protein Sci. 4(10):2191-2202).

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Another approach described in US 5,891,418 is to include a metal-ion complexing backbone in the peptide structure. Typically, the preferred metal-peptide backbone is based on the requisite number of particular coordinating groups required by the coordination sphere of a given complexing metal ion. In general, most of the metal ions that may prove useful have a coordination number of four to six. The nature of the coordinating groups in the peptide chain includes nitrogen atoms with amine, amide, imidazole, or guanidino functionalities; sulfur atoms of thiols or disulfides; and oxygen atoms of hydroxy, phenolic, carbonyl, or carboxyl functionalities. In addition, the peptide chain or individual amino acids can be chemically altered to include a coordinating group, such as for example oxime, hydrazino, sulfhydryl, phosphate, cyano, pyridino, piperidino, or morpholino. The peptide construct can be either linear or cyclic, however a linear construct is typically preferred.

As will be readily understood by person skilled in this field the methods of the present invention provide a rational method for designing and selecting compounds including antibodies which interact with members of the EGF receptor family. In the majority of cases these compounds will require further development in order to increase activity. Such further development is routine in this field and will be assisted by the structural information provided in this application. It is intended that in particular embodiments the methods of the present invention includes such further developmental steps.

In yet a further, eighteenth, aspect, the invention provides a method of utilizing molecular replacement to obtain structural information about a molecule or a molecular complex of unknown structure, comprising the steps of:

- (i) crystallising said molecule or molecular complex;
- (ii) generating an X-ray diffraction pattern from said crystallized molecule or molecular complex;
- (iii) applying at least a portion of the structure coordinates set forth in Appendix I or Appendix II to the X-ray diffraction pattern to generate a three-dimensional electron density map of at least a portion of the molecule or molecular complex whose structure is unknown.

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The term "molecular replacement" refers to a method that involves generating a preliminary model of an EGF receptor family member extracellular domain crystal whose structure coordinates are unknown, by orienting and positioning a molecule whose structure coordinates are known (e.g., EGFR 1-501 coordinates from Appendix I or Appendix II) within the unit cell of the unknown crystal so as best to account for the observed diffraction pattern of the unknown crystal. Phases can then be calculated from this model and combined with the observed amplitudes to give an approximate Fourier synthesis of the structure whose coordinates are unknown. This, in turn, can be subject to any of the several forms of refinement to provide a final, accurate structure of the unknown crystal (Lattman, 1985, Methods in Enzymology 115: 55-77; M. G. Rossmann, ed., "The Molecular Replacement Method", Int. Sci. Rev. Ser., No. 13, Gordon & Breach, New York, 1972). Using the structure coordinates of the EGFR 1-501 provided by this invention, molecular replacement may be used to determine the structural coordinates of a member of the EGF receptor family.

Throughout this specification, the terms "S1" domain and "cys-rich 1" ("CR1") domain are used interchangeably. Similarly, the terms "S2" domain and "cys-rich 2" ("CR2") domain are used interchangeably.

Throughout this specification, the word "comprise", or variations such as "comprises" or "comprising", will be understood to imply the inclusion of a stated element, integer or step, or group of elements, integers or steps, but not the exclusion of any other element, integer or step, or group of elements, integers or steps.

#### **Brief Description of the Figures**

**Figure 1**: Structure-based sequence alignment of the EGFR residues 1-501 and corresponding residues of ErbB-2, ErbB-3 and ErbB-4.

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- **Figure 2:** Sequence alignment of EGF-like domains of ligands of the EGFR family. Note that the start and end of some of these domains are not precisely defined. The sequences are for the human forms of the proteins except for epigen and the EGF-like domain in neuregulin-4 which are the mouse forms of the respective proteins. Abbreviations: EGF epidermal growth factor; TGF- $\alpha$  transforming growth factor alpha; HB-EGF heparin binding epidermal growth factor; NRG neuregulin. There are four known neuregulin genes (NRG1, NRG2, NRG3 and NRG4), some of which encode alternatively spliced forms of the EGF-like domain. These forms are identified as the  $\alpha$  or  $\beta$ -form of the EGF-like domain.
- **Figure 3**. Polypeptide trace for the structure of the 2:2 complex of sEGFR501 and TGF $\alpha$  back-to-back dimer, comprising receptor molecule A , receptor molecule B, TGF $\alpha$  molecule C and TGF $\alpha$  molecule D. The dimer axis lies vertically, in the page.
- **Figure 4**. Structure-based sequence alignment of the human EGFR ectodomain, human  $TGF\alpha$  and related proteins. (A) The receptor L1 and L2 domains plus the first module of the cys rich regions, S1 and S2. (B) Modules 2 to 8 of the receptor cys rich region S1 and modules 2 to 7 of S2. (C) Human  $TGF\alpha$ , EGF and heparin binding EGF. Numbers in parentheses show where amino acid have been omitted and positions with conserved physicochemical properties of amino acids are boxed. Secondary structure elements are indicated above the sequences (and below in A), with shading as in Figure 5A. Also indicated are disulfide bonds and residues buried at protein-protein interfaces: L1- $TGF\alpha$ , 1; L2- $TGF\alpha$ , 2;L1-L2 contacts, 3 in A; L1- & L2- $TGF\alpha$ , 3 in B; S1 loop, L; residues to which the S1 loop binds, P; other residues in the dimer interface, D. Three types of disulfide bonded modules are indicated by bars below the sequences and residues not conforming to the S1 pattern are shaded grey.

Figure 5. Comparison of sEGFR501 with the first three domains of IGF-1R. Domains 1-3 of IGF-1R are on the left, sEGFR501 as it appears in the complex is on the right. For clarity the ligand in the TGFα:sEGFR501 complex is not shown. L1 domains are oriented similarly.

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**Figure 6.** Structure of the ligand:receptor binding surfaces. Ribbon representation showing the contacts between sEGFR501 and TGFa viewed from the left in Figure 3. Residue numbers for two important residues in  $TGF\alpha$  are below the side chains.

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Figure 7. Stereoview of the molecule A S1 loop contacts with S1 of molecule B in the back-to-back dimer interface. Inter-chain hydrogen-bonds are drawn in black along with the hydrogen-bond from AsnA247 which stabilises the loop tip conformation. The single letter code and residue number is used for amino acid residues. The dimer axis lies vertically at the left between H280.

Figure 8: Functional characterization of EGFR mutants expressed in BaF/3

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cells. (A) Ligand binding by wild type and mutant EGFRs expressed in BaF/3 cells. Scatchard plots of 125I-EGF binding to clones expressing the wt, E21A or ΔCR1 EGFR were analyzed using the Radlig program to yield estimates of receptor affinity. The three cell lines expressed comparable receptor numbers as assessed by M2 or 528 antibody binding and FACS analysis. Shown are the plots for cold ligand titration assay; identical results were obtained titrating the radiolabelled EGF (hot titration). (B) EGF-dependent tyrosine kinase activation. This was determined in total cell lysates by sequential immunoblotting with antiphosphotyrosine (top) or anti-EGFR (bottom) antibodies. The anti-EGFR antibodies have slightly lower affinity for the hyperphosphorylated form of the EGFR. The results are representative of multiple experiments on at least four independently derived clones for each mutant. (C) Ligand-induced EGFR dimerization. Cross-linking of the EGFR via the extracellular portion was performed at 37°C to maximize dimer yield. Samples were analyzed by SDS-PAGE on 3-8% gradient gels and immunoblotting with anti-EGFR antibodies. These data are representative of at least four separate experiments. (D) Ligand-induced sEGFR501 dimerization. Cross-linking of wild type and CR1 loop mutant (Tyr246Asp, Asn247Ala, Thr249Asp, Tyr251Glu, Gln252Ala

and Met253Asp) was carried out as described previously (Elleman et al., 2001. Biochemistry 40:8930-8939).

#### **Key to Sequence Listing**

- SEQ ID NO:1: EGFR as shown in Figure 1
  - SEQ ID NO:2: ErbB-2 as shown in Figure 1
  - SEQ ID NO:3: ErbB-3 as shown in Figure 1
  - SEQ ID NO:4: ErbB-4 as shown in Figure 1
  - SEQ ID NO:5: EGF domain as shown in Figure 2
- SEQ ID NO:6: TGF- $\alpha$  domain as shown in Figure 2 10
  - SEQ ID NO:7: Amphiregulin domain as shown in Figure 2
  - SEQ ID NO:8: HB-EGF domain as shown in Figure 2
  - SEQ ID NO:9: Betacellulin domain as shown in Figure 2
  - SEQ ID NO:10: Epiregulin domain as shown in Figure 2
- SEQ ID NO:11: Epigen domain as shown in Figure 2 15
  - SEQ ID NO:12: NRG1α domain as shown in Figure 2
  - SEQ ID NO:13: NRG1β domain as shown in Figure 2
  - SEQ ID NO:14: NRG2α domain as shown in Figure 2
  - SEQ ID NO:15: NRG2β domain as shown in Figure 2
- SEQ ID NO:16: NRG3 domain as shown in Figure 2 20
  - SEQ ID NO:17: NRG4 domain as shown in Figure 2
  - SEQ ID NO:18: EGFR L1 domain as shown in Figure 4A
  - SEQ ID NO:19: IGF 1R L1 domain as shown in Figure 4A
  - SEQ ID NO:20: IGF 1R L2 domain as shown in Figure 4A
- SEQ ID NO:21: EGFR L2 domain as shown in Figure 4A 25
  - SEQ ID NO:22: EGFR S1 domain as shown in Figure 4B
  - SEQ ID NO:23: IGF 1R S1 domain as shown in Figure 4B
  - SEQ ID NO:24: EGFR S2 domain as shown in Figure 4B
  - SEQ ID NO:25: TGFα domain as shown in Figure 4C
- SEQ ID NO:26: EGF domain as shown in Figure 4C 30

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SEQ ID NO:27: hbEGF domain as shown in Figure 4C

## **Detailed description of Preferred Embodiments of the Invention**

The present inventors have now obtained three dimensional structural information about the EGF receptor which enables a more accurate understanding of how the binding of ligand leads to signal transduction. Such

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information provides a rational basis for the development of ligands for specific therapeutic applications, something that heretofore could not have been predicted *de novo* from available sequence data.

The precise mechanisms underlying the binding of agonists and antagonists to the EGF receptor are not fully clarified. However, the binding of ligands to the receptor site, preferably with an affinity in the order of 10<sup>-8</sup>M or higher, is understood to arise from enhanced stereochemical complementarity relative to naturally occurring EGF receptor ligands.

Such stereochemical complementarity, pursuant to the present invention, is characteristic of a molecule that matches intra-site surface residues lining the groove of the receptor site as enumerated by the coordinates set out in Appendix I or Appendix II. Appendix II is a refined version of the coordinates provided in Appendix I.

Substances which are complementary to the shape and electrostatics or chemistry of the receptor site characterised by amino acids positioned at atomic coordinates set out in Appendix I or Appendix II will be able to bind to the receptor, and when the binding is sufficiently strong, substantially prohibit binding of the naturally occurring ligands to the site.

It will be appreciated that it is not necessary that the complementarity between ligands and the receptor site extend over all residues lining the groove in order to inhibit binding of the natural ligand.

In general, the design of a molecule possessing stereochemical complementarity can be accomplished by means of techniques that optimize, chemically and/or geometrically, the "fit" between a molecule and a target receptor. Known techniques of this sort are reviewed by Sheridan and Venkataraghavan, Acc. Chem Res. 1987 20 322; Goodford, J. Med. Chem. 1984 27 557; Beddell, Chem. Soc. Reviews 1985, 279; Hol, Angew. Chem. 1986 25 767, Verlinde C.L.M.J & Hol, W.G.J. Structure 1994, 2, 577, Walters, W.P., Stahl, M.T., Murcko, M.A., Drug Discovery Today 1998, 3, 160; Langer, T. and Hoffmann, R.D., Current Pharmaceutical Design 2001, 7, 509; Good, A., Current Opinion in Drug Disc. Devel. 2001, 5, 301; and Gane, P.J. and Dean, P.M., Curr. Opinion Struct. Biol., 2000, 10, 401. the respective contents of which are hereby incorporated by reference. See also Blundell et al., Nature 1987 326 347 (drug development based on information regarding receptor structure) and Loughney, D.A., Murray, W.V., and Jolliffe, L.K. Med. Chem.

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Res. 1999, 9, 579 (database mining application on the growth hormone receptor).

There are two preferred approaches to designing a molecule, according to the present invention, that complements the stereochemistry of the EGF receptor. The first approach is to in silico directly dock molecules from a three-dimensional structural database, to the receptor site, using mostly, but not exclusively, geometric criteria to assess the goodness-of-fit of a particular molecule to the site. In this approach, the number of internal degrees of freedom (and the corresponding local minima in the molecular conformation space) is reduced by considering only the geometric (hard-sphere) interactions of two rigid bodies, where one body (the active site) contains "pockets" or "grooves" that form binding sites for the second body (the complementing molecule, as ligand).

This approach is illustrated by Kuntz et al., J. Mol. Biol. 1982 161 269, and Ewing, T.J.A. et al., J. Comput-Aid. Mol. Design 2001, 15, 411, the contents of which are hereby incorporated by reference, whose algorithm for ligand design is implemented in a commercial software package, DOCK version 4.0, distributed by the Regents of the University of California and further described in a document, provided by the distributor, which is entitled "Overview of the DOCK program suite" the contents of which are hereby incorporated by reference. Pursuant to the Kuntz algorithm, the shape of the cavity represented by the EGF receptor site is defined as a series of overlapping spheres of different radii. One or more extant databases of crystallographic data, such as the Cambridge Structural Database System maintained by Cambridge University (University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, U.K.), the Protein Data Bank maintained by the Research Collaboratory for Structural Bioinformatics (Rutgers University, N.J., U.S.A.), LeadQuest (Tripos Associates, Inc., St. Louis, MO), Available Chemicals Directory (Molecular Design Ltd., San Leandro, CA), and the NCI database (National Cancer Institute, U.S.A) is then searched for molecules which approximate the shape thus defined.

Molecules identified in this way, on the basis of geometric parameters, can then be modified to satisfy criteria associated with chemical complementarity, such as hydrogen bonding, ionic interactions and Van der Waals interactions. Different scoring functions can be employed to rank and select the best molecule from a database. See for example Bohm, H.-J. and

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Stahl, M. Med.Chem.Res. 1999, <u>9</u>, 445. The software package FlexX, marketed by Tripos Associates, Inc. (St. Louis, MO) is another program that can be used in this direct docking approach (see Rarey, M. et al., J. Mol. Biol. 1996, <u>261</u>, 470).

The second preferred approach entails an assessment of the interaction of respective chemical groups ("probes") with the active site at sample positions within and around the site, resulting in an array of energy values from which three-dimensional contour surfaces at selected energy levels can be generated. The chemical-probe approach to ligand design is described, for example, by Goodford, J. Med. Chem. 1985 28 849, the contents of which are hereby incorporated by reference, and is implemented in several commercial software packages, such as GRID (product of Molecular Discovery Ltd., West Way House, Elms Parade, Oxford OX2 9LL, U.K.). Pursuant to this approach, the chemical prerequisites for a site-complementing molecule are identified at the outset, by probing the active site with different chemical probes, e.g., water, a methyl group, an amine nitrogen, a carboxyl oxygen, and a hydroxyl. Favored sites for interaction between the active site and each probe are thus determined, and from the resulting three-dimensional pattern of such sites a putative complementary molecule can be generated. This may be done either by programs that can search three-dimensional databases to identify molecules incorporating desired pharmacophore patterns or by programs which using the favored sites and probes as input perform de novo design.

Programs suitable for searching three-dimensional databases to identify molecules bearing a desired pharmacophore include: MACCS-3D and ISIS/3D (Molecular Design Ltd., San Leandro, CA), ChemDBS-3D (Chemical Design Ltd., Oxford, U.K.), and Sybyl/3DB Unity (Tripos Associates, Inc., St. Louis, MO).

Programs suitable for pharmacophore selection and design include: DISCO (Abbott Laboratories, Abbott Park, IL), Catalyst (Accelrys, San Diego, CA), and ChemDBS-3D (Chemical Design Ltd., Oxford, U.K.).

Databases of chemical structures are available from a number of sources including Cambridge Crystallographic Data Centre (Cambridge, U.K.), Molecular Design, Ltd., (San Leandro, CA), Tripos Associates, Inc. (St. Louis, MO), and Chemical Abstracts Service (Columbus, OH).

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De novo design programs include Ludi (Biosym Technologies Inc., San Diego, CA), Leapfrog (Tripos Associates, Inc.), Aladdin (Daylight Chemical Information Systems, Irvine, CA), and LigBuilder (Peking University, China).

Those skilled in the art will recognize that the design of a mimetic may require slight structural alteration or adjustment of a chemical structure designed or identified using the methods of the invention.

The invention may be implemented in hardware or software, or a combination of both. However, preferably, the invention is implemented in computer programs executing on programmable computers each comprising a processor, a data storage system (including volatile and non-volatile memory and/or storage elements), at least one input device, and at least one output device. Program code is applied to input data to perform the functions described above and generate output information. The output information is applied to one or more output devices, in known fashion. The computer may be, for example, a personal computer, microcomputer, or workstation of conventional design.

Each program is preferably implemented in a high level procedural or object-oriented programming language to communicate with a computer system. However, the programs can be implemented in assembly or machine language, if desired. In any case, the language may be compiled or interpreted language.

Each such computer program is preferably stored on a storage medium or device (e.g., ROM or magnetic diskette) readable by a general or special purpose programmable computer, for configuring and operating the computer when the storage media or device is read by the computer to perform the procedures described herein. The inventive system may also be considered to be implemented as a computer-readable storage medium, configured with a computer program, where the storage medium so configured causes a computer to operate in a specific and predefined manner to perform the functions described herein.

Compounds designed according to the methods of the present invention may be assessed by a number of *in vitro* and *in vivo* assays of hormone function. For example, the identification of EGF receptor antagonists of may be undertaken using a solid-phase receptor binding assay. Potential antagonists may be screened for their ability to inhibit the binding of europium-labelled EGF receptor ligands to soluble, recombinant EGF receptor in a microplate-based

format. Europium is a lanthanide fluorophore, the presence of which can be measured using time-resolved fluorometry. The sensitivity of this assay matches that achieved by radioisotopes, measurement is rapid and is performed in a microplate format to allow high-sample throughput, and the approach is gaining wide acceptance as the method of choice in the development of screens for receptor agonists/antagonists ( see Apell et.al. J. Biomolec. Screening 3:19-27, 1998 : Inglese et. al. Biochemistry 37:2372-2377, 1998).

Binding affinity and inhibitor potency may be measured for candidate inhibitors using biosensor technology.

The EGF receptor antagonists may be tested for their ability to modulate receptor activity using a cell-based assay incorporating a stably transfected, EGF-responsive reporter gene (Souriau et al., 1997, Nucleic Acids Res. 25:1585-1590). The assay addresses the ability of EGF to activate the reporter gene in the presence of novel ligands. It offers a rapid (results within 6-8 hours of hormone exposure), high-throughput (assay can be conducted in a 96-well format for automated counting) analysis using an extremely sensitive detection system (chemiluminescence). Once candidate compounds have been identified, their ability to antagonise signal transduction via the EGF-R can be assessed using a number of routine in vitro cellular assays such as inhibition of EGF-mediated cell proliferation. Ultimately, the efficiency of antagonist as a tumour therapeutic may be tested in vitro in animals beating tumour isografts and xenografts as described (Rockwell et al., 1997, Proc Natl Acad Sci U S A 94:6523-6528; Prewett et al., 1998 Clin Cancer Res 4:2957-2966).

Tumour growth inhibition assays may be designed around a nude mouse xenograft model using a range of cell lines. The effects of the receptor antagonists and inhibitors may be tested on the growth of subcutaneous tumours.

#### EXAMPLES

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#### Example 1: Protein preparation of sEGFR501

The derivation of stably transfected Lec8 cells expressing sEGFR501 and the subsequent purification and characterisation of the secreted ectodomain has been described in detail (Elleman et al., 2001, Biochemistry 40:8930-8939.). Purified sEGFR501 was shown, by isoelectric focusing gels to

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be unstable on storage, the majority of isoforms being transformed into products with less acidic isoelectric points. This change was accompanied by a small mobility increase (estimated at 1-2 kDa ) on SDS polyacrylamide gels. Nterminal sequence analysis showed that the new product retained the expressed N-terminus of sEGFR501, suggesting that the apparent 1-2 kDa reduction in mass and increase in positive charge might be due to partial or complete loss of the acidic-residue rich C-terminal tag and enterokinase cleavage site. Prolonged storage led to the majority of protein converting to the least acidic isoform of pI ~6.6, which appeared to remain stable. The conversion of a fresh preparation of sEGFR501 to a stable, less acidic isoform was more reproducible and rapid if it was subject to limited proteolysis at ambient temperature in Tris-buffered saline (pH8) for ~180 min with endoproteinase Asp-N (Boehringer-Mannheim) at an enzyme: protein ratio of 1:1000 (w/w). The least-acidic isoform of apparent pl ~6.2 was isolated from the other components by anion exchange chromatography. The digest was bound to three Uno Q2 columns (BioRad) connected in series to a BioLogic HR liquid chromatography instrument in 20 mM ethanolamine /50 mM taurine pH8.0 buffer and the least acidic form was the first product obtained by isocratic elution in the same buffer containing 15 mM lithium acetate. The purified protein was incubated with endoglycosidase F (PNGase-free -Boehringer Mannheim) at a ratio of 10-20 Units/mg protein, followed by rechromatography over Superdex 200 to remove enzyme and low molecular weight cleavage products.

### 25 Example 2: Crystallization and Data Collection

sEGFR501 obtained from the above procedures appeared nearly homogeneous on SDS and IEF gels and was used in crystallization trials alone and in combination with several ligands. The best diffracting crystals were obtained from mixtures containing a five-fold molar quantity of human TGF $\alpha$  (GroPep receptor grade) compared to sEGFR501. Crystals of sEGFR501 in complex with TGF $\alpha$  were grown in 7% PEG 3350, 20% Trehalose, 10 mM CdCl2 and 100mM HEPES, pH 7.5, and belonged to the space group P21 (a = 51.59, b = 198.71, c = 78.90 Å,  $\beta$  = 102.03°). These crystals were cryo-cooled to -170°C in the same mother liquor. Data were recorded on a Rigaku RAXIS VI area detector using a Siemens M18XHF X-ray generator with Yale/MSC mirrors or a Rigaku RU300 generator and AXCO capillary optics. Crystals

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were also derivatised by soaking in mother liquor containing 1-10 mM heavy atom compounds and diffractions data were collected as before and statistics are given in Table 1. The resolution limit was defined as where  $1/\sigma = 2$  for 50% of the reflections. Notable anisotropy was observed for the diffraction limit of the crystals and in the mosaic spread of diffraction maxima.

### **Example 3: Phase Determination and Structure Refinement**

Phasing by multiple isomorphic replacement was performed with programs from CCP4 (Collaborative Computational Project Number 4, 1994) and SHARP (De La Fortelle and Bricogne, 1996, , Methods Enzymol. 276: 472-494) and the resulting electron density maps were improved by solvent flattening and histogram matching with DM (Cowtan, K. 1994, Joint CCP4 and ESF-EACBM Newslett. Protein Crystallogr. 31:34-38). Details are given in Table 1. Density averaging using noncrystallographic symmetry was not of much value as the proteins corresponded to more than three rigid groups. The polypeptide chains for two receptor and two ligand molecules were fitted manually and refined with CNS (Brunger, et al., 1998, X-PLOR Reference Manual 3.851, Yale Univ., New Haven, CT). As the highest resolution data were collected for the PIP derivative these data were use for the final stages of refinement. During the refinement an overall anisotropic temperature factor was applied, with the magnitude of the semi-axes being -18.4, 5.6 and 12.7 Å<sup>2</sup>. The refined structure contains 1097 amino acids, 14 carbohydrate residues, 7 Pt<sup>2+</sup>, 11 Cd<sup>2+</sup> and 4 Cl<sup>-</sup> ions and 79 water molecules. Poor density was observed for residues 148-160 and 289-307 in each receptor and no density was found for ligand residues C1 and D1-D2 and receptor residues A306 and beyond residues A500 and B501.

## Example 4: Construction of N-terminal tagged EGF receptor and mutants

The polymerase chain reaction (PCR) using a human EGFR cDNA (Accession # x00588) (Ullrich et al., 1984, Nature 309:418-425) was used to generate EGFR expression constructs. It is noted that the original EGFR cDNA sequence contains an error at position 1806G (Accession # x00588). The correct base is 1806C, which destroys the Hind III restriction site in the original cDNA sequence. To construct the FLAG tag at the N-terminus of the receptor, PCR products containing EGFR leader sequence (and small portion of 5' non-coding sequence, base pair 131 to 261), followed by the FLAG coding

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sequences with Hind III and Xho I on its 5' and 3' ends, respectively, were generated and cloned into a mammalian expression vector pcDNA3 (Invitrogen) using those restriction sites. The Xho I site coding for Leu and Glu of mature EGFR residues 1 and 2 was generated by silent mutation and an Xba I site was generated after the stop codon (3817-3819) of EGFR cDNA using PCR. Cloning such modified EGFR cDNA into the FLAG tag containing pcDNA3 vector yielded the wild-type N-terminus tagged EGF receptor construct, M2-EGFR. PCR products containing point mutations and S1-loop deletion were cloned using the wild-type M2-EGFR as a template. The point mutation constructs are E21A, R470L, N473D, S474E and A477D. The S1loop deletion construct contains a replacement of nucleotides 988-1035 by GCC, resulting in S1-loop residues 244-259 being replaced by a single alanine residue. The sEGFR501 S1-loop mutant (Tyr246Asp, Asn247Ala, Thr249Asp, Tyr251Glu, Gln252Ala and Met253Asp) was generated by oligonucleotidedirected in vitro mutagenesis using the USB-T7 Gen kit, transiently expressed, purified and characterised as described previously (Elleman et al., 2001. Biochemistry 40:8930-8939).

#### Example 5: Transient expression of wild-type and mutant EFGR

NIH3T3 and 293 cells were obtained from the American Type Culture Collection. The cells were grown in a 10% CO<sub>2</sub> atmosphere at 37 °C in Dulbecco's modified Eagle's medium (for NIH3T3) or in RPMI medium (for 293) (both from Life Technologies. Inc.) containing 10% foetal bovine serum (CSL, Australia), 60 μg/ml pencillin and 100 μg/ml streptomycin. Transient transfections were performed using FuGENETM 6 (Roche Molecular Biochemicals) according to manufacture's protocol. Cells were seeded at ~10% (for NIH3T3) or ~25% (for 293) confluency in 6-well plate and transfected with 0.5 µg plasmid DNA per construct per well. Transfected cells were assayed two days later. For western blotting, cells were washed with serumfree medium, starved for 2 hr and treated with or without EGF (100ng/ml) for 10 min. Whole cell lysates were prepared, fractionated by SDS-gel electrophoresis using 4-20% polyacrylamide gels and western blotted using the monoclonal antibodies M2 (anti-FLAG, Sigma) and 4G10 (antiphosphotyrosine, Upstate Biotechnology) as described (Walker et al, 1998, Growth Factors 16, 53-67).

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# Example 6: Characterisation of wild-type and mutant EGFR stably expressed in BaF/3 cells.

The isolation and characterisation of stably transfected cell lines expressing wild-type and mutant EGFRs was performed using the II3dependent murine hemopoietic lineage BaF/3 (Walker et al, 1998, Growth Factors 16, 53-67). Expression vectors containing the appropriate EGFR constructs were transfected individually by electroporation using a Gene Pulser (BioRad) according to manufacturer's instructions. Neomycin-resistant pools were generated by selection in G418, and cloned by limiting dilution to obtain stable cell lines. Cell-surface expression of receptors was detected by FACScan (Fluorescence Activated Cell Scan, Becton and Dickinson) using the anti-EGFR monoclonal antibody 528 (Gill et al., 1984, J. Biol. Chem. 259:7755-7760) and the M2 anti-FLAG antibody (Brizzard et al., 1994, Biotechniques 16:730-735). Ligand binding studies and Scatchard analysis were performed using iodinated murine EGF as previously described (Walker et al, 1998, Growth Factors 16, 53-67). Scatchard plots and estimates of affinities and receptor numbers were obtained using the Radlig program (Kell for Windows, BioSoft). Ligand-induced receptor kinase activation was analysed by immunoblotting cell lysates with 4G10. For receptor cross-linking studies, washed cells were incubated in PBS with or without EGF (100ng/ml) and with or without BS3 (Pierce; 1.3mM) for 20 min at 37°C. The cells were then lysed and analysed by immunoblotting using a polyclonal sheep anti-EGFR antibody (Upstate Biotechnology) as described (Walker et al.,1998. Mol. Cell Biol. 18:7192-7204).

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#### **Example 7: Overall Structure**

sEGFR501 is comprised of three structural domains, namely L1, S1 and L2 plus the first module from the second cys-rich region S2. Crystals of TGF $\alpha$ :sEGFR501 contain two molecules of each polypeptide in the asymmetric unit. There are two possible dimer interactions: a back-to-back dimer dominated by interactions between the S1 domains of each receptor and a head-to-head dimer involving contacts between the L1 and L2 domains. The back-to-back complex is approximately 33 x 78 x 103 Å while the head-to-head complex is 65 x 75 x 128 Å. Each TGF $\alpha$  molecule is clamped between the L1 and L2 domains from the same sEGFR501 molecule, and makes contact with only one receptor molecule in the dimer. In the back-to-back dimer the two

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ligands are located on opposite sides of the complex with the closest approach 70.9 Å apart. In the head-to-head dimer the two ligands are centrally located, and are separated by 15 Å.

We conclude that the back-to-back dimer corresponds to the 2:2 TGFα:sEGFR501 complex that is formed in solution (Elleman et al., 2001. Biochemistry 40:8930-8939) from comparisons of the amount of buried surface area in the two dimer options, the lack of symmetry in the head-to-head dimer compared to that seen in the back-to-back dimer, the sequence conservation at the dimer interfaces (described later) and the characteristics of the receptors mutated at both interfaces (described later). In the head-to-head dimer only 510 Å2 of accessible surface area is buried on each molecule and this is distributed over two patches 39 Å apart. The residues involved are 21, 24, 25, 28 and 48-51 on both L1s, 471, 473, 474, 476 and 477 on both L2s plus 32 (molecule A) and 443 and 478 from molecule B. In contrast, in the back-toback dimer 1125 Å2 on each receptor is buried. Biologically relevant proteinprotein interfaces usually bury more than 700 Å2 of surface per molecule and often about 1000 Å2 (Lo Conte et al., 1999, J. Mol. Biol. 285:2177-2198), implying that the back-to-back configuration is more likely to be the functional dimer. There is a lack of symmetry at the two L1-L2' interfaces in the head-tohead dimer which corresponds to a 6 Å translation of the L2' helix (residues 471-479) relative to the L1 helix. Such structural ambiguity is not seen in the back-to-back dimer (Figure 3), the non-crystallographic symmetry being very close to a pure two-fold rotation, implying that this is the functional dimer. It is further supported by experiments where a model of the EGF receptor S2 domain (Jorissen et al., 2000, Protein Sci. 9:310-324) was superimposed onto the structure determined here for the first modules of the S2 domains of the two sEGFR501 molecules. In the back-to-back dimer the rod-like domains of S2 project towards each other underneath sEGF501, consistent with the ability to form disulfide-linked dimers via a Cys mutation three residues upstream of the transmembrane domain when ligand binds to mutant receptors (Sorokin et al., 1994, J. Biol. Chem. 269:9752-9759). The same superimposition performed on the head-to-head dimer results in the modelled S2 domains projecting away from each other and is inconsistent with the Cys mutant data (Sorokin et al., 1994, J. Biol. Chem. 269:9752-9759).

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#### Example 8: Receptor domain architecture

The L1, S1 and L2 domains show both sequence (Figure 4) and structural (Figure 5) homology to the first three domains of the type I insulin-like growth factor receptor (Garrett et al., 1998, Nature 394:395-399). More broadly, the L domains resemble other leucine-rich repeat or solenoid proteins (Ward, C. W. and Garrett, T. P. J. 2001, BMC Bioinformatics 2, 4; Kobe B. and Kajava, A. V. 2001, Curr. Opin. Struct. Biol. 11:725-732). Each L domain is composed of six turns of a β-helix or solenoid and is capped at each end by a helix and a disulfide bond. At the C-terminus of the L domains the helix is only vestigial and in each case there is intimate association with the first module of S1 or S2. A conserved Trp from each of these first modules (Trp176 in S1 and Trp492 in S2) is inserted into the body of the L domain between the fourth and fifth turns of the β-helix as seen in IGF-1R (Garrett et al., 1998, Nature 394:395-399), making these modules structurally part of the L domain. In each case the loops in the first cys-rich modules of the S1 and S2 domains of sEGFR501 are shorter than those in IGF-1R and similar in size to the other modules in sEGFR501 (modules 2 and 3 in S1 and 4 and 7 in S2) which contain two disulfide bonds (Figures 4A and 4B).

Each of the L domains contains a large  $\beta$ -sheet (second sheet, in Figure 5), flanked by two shorter ones on either side (blue and yellow). The edge between the first and second  $\beta$ -sheets is characterised by the presence of a stack of conserved Gly residues at positions 39, 63, 85, 122 in L1 and 343, 379, 404 and 435 in L2 (Figure 4A). The edge at the junction of the second and third  $\beta$ -sheets is formed, in part, by a short Asn ladder as in IGF-1R (Garrett et al.,1998, Nature 394:395-399). A loop from the fourth turn of each solenoid protrudes from the large (second)  $\beta$ -sheet and is common to the EGF and IGF receptor families. Opposite the large  $\beta$ -sheet in both L1 and L2 there is a more irregular face, with the polypeptide strands in the third, fourth and fifth turns in L2 having a similar conformation to those in IGF-1R L1 but different from those in EGFR L1.

For both L1 and L2 domains of EGFR the long  $\beta$ -strand in the first turn of the solenoid is missing. In L1 this strand is replaced by a long V-shaped excursion (residues 8-18) of the polypeptide chain which sits over the large  $\beta$ -sheet of this domain to form a major part of L1's ligand-binding surface (Figure 6). In L2 this second strand is replaced by a loop (residues 316-326) which also contacts the ligand (Figure 6).

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The order and association of the eight disulfide-bonded modules in S1 are similar to that of IGF-1R (Figures 4A and 4B), with the first module packed against the fourth face of the L1 domain as discussed above and modules 2-8 forming a rod-like domain (Figure 5) spanning from L1 to L2. Relative to IGF-1R, each of the disulfide bonded modules in sEGFR501 is oriented slightly differently to the previous one (8-36°), with the cumulative effect being that S1 of the EGFR appears as a straight rod, bent at module 6, whereas in IGF-1R the S domain is curved. Even for the two molecules of EGFR in the crystal's asymmetric unit there is a relative difference between modules 6 and 7 of 12°, implying that the modules are not always rigidly associated.

Like IGF-1R, S1 of EGFR makes contact with L1 along one side of the solenoid (sheet 1, burying 1375 Ų of accessible surface area) but in EGFR, S1 also makes appreciable contact with the L2 domain via modules 6 and 7 (burying 860 Ų). This is different to the IGF-1R structure where the L2 domain is rotated away to lie almost perpendicular to the axis of L1 (Figure 5). Thus the C-terminal region of S1 may act as a hinge in the ligand-free form of the EGFR as modules 7 and 8 appear somewhat mobile, having some of the largest temperature factors in the structure.

The most striking feature of S1 is a large ordered loop from module 5 which projects directly away from the ligand-binding site. The loop consists of residues 242-259 and contains an antiparallel  $\beta$ -ribbon (Figure 5). This loop is highly conserved within the EGFR family and is different to the insulin receptor family where a loop of similar size points from module 6 into the ligand-binding site (Figure 5). If EGFR were to have a loop similar to IGF-1R, there would be a substantial steric clash between that loop and L2.

#### Example 9: Structure of TGFα

More than 10 mitogenic peptides form a family of ligands which can bind to members of the EGFR family. However, apart from residues Gly19, Gly40 and the three conserved disulfide bonds which are needed to maintain structure, only Arg42 is conserved throughout the family and pairwise sequence identities between the ligands are often less than 35%. Three-dimensional structures have been determined by NMR for EGF (Montelion et al., 1987, Proc. Natl Acad. Sci. U S A. 84, 5226-5230; Cooke et al., 1987, Nature 327:339-341; Kohda et al., 1992, Biochemistry 31:11928-11939; Barnham, et al., 1998, Protein Sci. 7:1738-1749), TGFα (Tappin et al., 1989,

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Eur. J. Biochem. 179, 629-637; Harvey et al, 1991, Eur. J. Biochem. 198:555-562; Moy et al., 1993, Biochemistry 32:7334-7353) and heregulin (Nagata et al, 1994, EMBO J. 13:3517-3523; Jacobsen et al, 1996, Biochemistry 35, 3402-3417) and by X-ray crystallography for heparin-binding EGF (HB-EGF) in complex with diphtheria toxin (Louie et al., 1997, Mol. Cell 1:67-78) and EGF (Lu, et al., 2001, J. Biol. Chem. 276:34913-34917). These structures show that TGF $\alpha$  and its relatives are relatively flexible molecules built on a small structurally conserved core. In particular, the N- and C-terminal residues are often quite disordered. From a comparison of the two molecules of EGF in the asymmetric unit, (Lu, et al., 2001, J. Biol. Chem. 276:34913-34917) found that the common structural core comprised only residues 13-21 and 30-47 (equivalent to 15-22 and 31-48 in TGFα, Figure 4C) which encompassed half of the large  $\beta$ -ribbon and a small, C-terminal  $\beta$ -ribbon. The structure of TGF $\alpha$ , seen here in the complex, shows substantially more order, with a third, Nterminal  $\beta$ -strand (residues 4-6) aligned with the large  $\beta$ -ribbon (residues 19-33) to form a three-stranded β-sheet and an ordered C-terminus. The structure of TGF $\alpha$  in the 2:2 complex is triangular or crescent shaped. The two TGF $\alpha$ molecules in the dimer superimpose well on each other (rmsd 0.70 for 44 Ca atoms). They are structurally similar to the human EGF molecule A (rmsd 1.33 Å for 41 Cα atoms) in the EGF crystal structure (Lu, et al., 2001, J. Biol. Chem. 276:34913-34917) and even more closely to HB-EGF (0.66 Å for 34  $C\alpha$  atoms) in its complex with diphtheria toxin (Louie et al., 1997, Mol. Cell 1:67-78).

#### Example 10: Ligand-receptor interactions in the EGF receptor

In the complex, each sEGFR501 monomer interacts with a single  $TGF\alpha$  molecule and each ligand interacts with the large  $\beta$ -sheets of both the L1 and L2 domains of one receptor molecule (Figures 3 and 6). Relative to IGF-1R, the position of L2 corresponds to a rotation by 105° at the L2/S1 module7 interface or 122-130°, relative to L1 of IGF-1R. More than a third of the ligand's accessible surface area is buried by the L1 and L2 domains of the receptor (about 745 Ų by L1 and about 785 Ų by L2) and over 60% of the ligand's residues make contact with the receptor. The footprint of the ligand on the receptor covers most of the large (second) sheet of each L domain, running from the top left corner to abut the loop in the fourth rung of the solenoid (Figures 3 and 6).

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In the contact with L1, the inner curved face of the crescent-shaped TGFα sits across the large sheet and extends to the N-terminal helix of L1 (Figure 6). More than half the buried surface area of L1 comes from a Vshaped loop which runs across the large sheet, replacing the first strand of the corresponding sheet in IGF-1R. In the center of this interface  $\mathsf{TGF}\alpha$  makes contact with the receptor, primarily via main chain atoms. One strand from the large  $\beta$ -sheet of TGF $\alpha$  (residues 29-35) sits edge on to the receptor and aligns with the latter part of the V-shaped loop (residues 15-17) in L1's first solenoid turn. This enables the receptor to contribute part of the  $\mbox{\it V}$  as a fourth parallel  $\mbox{\it \beta}$ strand to the first and larger of the ligand's two  $\beta$ -sheets (Figure 6). Asn12, which is conserved in all of the EGFR family except ErbB2, makes a side chain to main chain contact with the peptide N atom of Gly40 in TGF $\alpha$ . The O $\gamma$ 1 atom of Thr15 from L1 also makes a hydrogen bond to Ala41 O of TGF $\alpha$ . This interface is also characterized by a small hydrophobic contact around Leu17 from L1 and hydrophilic and electrostatic interactions involving the ligand's 'B loop' residues Arg22, Gln26, Glu27 and Lys29 with the L1 domain residues Tyr45, Tyr101, Arg125, and Glu90 respectively. The location of the N-terminus of  $TGF\alpha$  near Tyr101 in the complex is consistent with the chemical crosslinking data of (Woltjer et al., 1992, Proc. Natl. Acad. Sci. USA. 89, 7801-7805). It should be noted that the lack of conservation in ErbB2 of two key residues in this interface (Arg for Thr/Ser at position 15 and Met for Asn at position 12) would prevent any of the EGF family of ligands from binding to L1.

The interface between L2 and  $TGF\alpha$  is formed mostly from the side chain atoms of both the ligand and receptor.  $TGF\alpha$  sits on the flat face (i.e. the large  $\beta$ -sheet) of L2, surrounded by three loops (residues 316-326, 352-363 and 405-412) which project out from the plane of the sheet (Figure 6). The contact between the ligand and receptor is an alternating series of stripes of hydrophobic and hydrophilic interaction across the interface. These are as follows: (i) Phe15 of  $TGF\alpha$  sits against Phe357 of EGFR; (ii) the strictly conserved Arg42 of  $TGF\alpha$  is sandwiched between Phe15 and Phe17 of the ligand facilitating the correct orientation and environment to make a salt bridge with the strictly conserved Asp355 of the receptor; (iii) Phe 17 and the lower part of Glu44 from  $TGF\alpha$  interact with Leu325, Leu348 and Val350 from L2; (iv) the next hydrophilic region contains four histidines, His18 and His45 of  $TGF\alpha$  and His346 and His409 of L2, as well as Tyr38 and Glu44 from  $TGF\alpha$  and Gln384 and Gln408 from L2; and (v) there is a hydrophobic pocket in L2

(Leu382, Gln408, His409, Phe412, Val 417, Ile438), centred over Ala415, which holds the highly conserved Leu48 of TGF $\alpha$  (Leu47 in EGF), the ligand residue with the largest buried surface. The C-terminus of TGF $\alpha$  is sandwiched between domains L1 and L2, with the side chain of Leu49 contacting both L domains. Leu49 may well define the final positioning of the L domains in the complex. Lys465 from L2 is near the C-terminus of TGF $\alpha$  and may stabilise the terminal carboxyl group. Lys465 has been chemically cross-linked to residue 45 in a mutant form of mouse EGF (Summerfield et al.,1996, J. Biol. Chem. 271:19656-19659). Some carbohydrate nearby could possibly also affect ligand binding.

There appears to be a number of key contacts, with the ionic interaction between TGF $\alpha$  Arg42 and EGFR Asp355 and the hydrophobic interaction between TGF $\alpha$  Leu48 and the hydrophobic pocket centred over EGFR Ala415 being particularly important. These features are conserved in all ErbB family members.

Although the interactions of EGFR with TGF $\alpha$  are ostensibly the same for both molecules in the crystal's asymmetric unit, it should be noted that when the ligands are superimposed, the L1 domains differ by a rotation of 3.5° about Leu14 C $\gamma$  and for the L2 domain approximately 8° about Ala415 C $\beta$  in EGFR and the side chain of Leu48 in TGF $\alpha$ . These observations suggest that while there may be a bit more flexibility in the TGF $\alpha$ :L2 interface, Leu48 is the major determinant of ligand binding to L2. The cluster of His residues in the middle of the L2 interface may play a part in release of the ligand at low pH following endocytosis.

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### **Example 11: Receptor-receptor interactions**

Unlike other growth factor receptor complexes, the ligand is not found at the dimer interface in the 2:2 complex of TGFa:sEGFR501. Thus ligand induced dimerization of sEGFR501 implies that binding of ligand induces a conformational change in the receptor that promotes receptor-receptor interactions. The most notable feature of the back-to-back dimer is a long loop (residues 242-259) which is specific to the EGFR family and is not found in the CR of IGF-1R (Figures 4B and 5) or other members of the insulin receptor family. From each receptor the loop projects out from the fifth module of S1, across the other S1 domain to a space between L1, L2 and S1 domains of the neighbouring receptor (Figure 3). Contact is made by residues 244-253 of the

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S1 loop in, say, molecule A with residues 229-239, 262-278, and 282-288 on the concave face of the S1 domain of molecule B (Figure 3). The buried surface areas are 480  $\mbox{\ensuremath{$A$}}^2$  and 330  $\mbox{\ensuremath{$A$}}^2$ , respectively. At specific positions in the S1 loop there is remarkable sequence conservation across all ErbB family members. Tyr246 is strictly conserved and is completely buried in the interface. The O $\mbox{\ensuremath{$\eta$}}$  atom of TyrA246 (receptor molecule A) makes hydrogen bonds with the GlyB264 N and CysB283 O atoms (receptor molecule B) and the phenyl ring sits against the C $\mbox{\ensuremath{$\beta$}}$  atoms of SerB262 and SerB282 and the face of the following peptides (Figure 7). Residue 251 is strictly conserved as Tyr or Phe and in this interface makes a hydrophobic contact via the benzene ring with the PheB263, GlyB264, TyrB275 and ArgB285. The O $\mbox{\ensuremath{$\eta$}}$  of TyrA251 is exposed to solvent. Additional hydrophobic contacts are made by ProA248 to PheB230 and AlaB265; and by MetA253 to ThrB278. There is also a hydrogen bond from TyrA251 O to ArgB285 N (Figure 7).

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Other conserved residues of the S1 loop, such as Asn247 and Asn256, do not make contact with the other half of the dimer, but hydrogen bond back onto the main chain and appear to be important for maintaining the loop in the appropriate conformation. There are four positions in the loop (residues 243, 248, 255 and 257) where proline is found in at least one member of the human EGFR family with ErbB3 having as many as three prolines. These prolines would further stabilise the conformation of the loop.

The loop not only touches the S1 domain of its partner, but also reaches across to contact the L1 and L2 domains of the other receptor molecule (burying a surface area of 40 Ų on L1 and 5 Ų on L2). AsnB86 touches ThrA249 and, with a slight rearrangement, could form a hydrogen bond between the side chains. Neither residue is conserved in other ErbB receptors although polar residues predominate at these positions. ThrA250, which is conserved in other ErbB receptors, sits near IleB318 but the reason for the conservation is not apparent. Although these interactions are quite weak, it is possible that the binding of the loop from one receptor may be affected by binding of ligand to the other, as ligand binding may alter the relative positions of the L domains.

Two other regions also participate in the back-to-back dimer contact. One is near the two long loops, where Asp279 and His280 of receptor A make contact across the dimer axis with the corresponding residues from receptor B (Figure 3). A second region of contact is near the N-terminal end of the S1

domain in cys-rich module 2, where residues 193–195 and 204-205 from molecule A contact 193-194 and 204-205 from molecule B, burying about 225 Å<sup>2</sup>.

# 5 Example 12: Functional Characterisation of mutant EGFRs expressed in BaF/3 cells

In order to establish the biological relevance of the two dimers identified in crystals of the TGFa:sEGFR501 complex, mutant receptors designed to probe the two dimer interfaces were analyzed. Single amino acid substitutions Glu21Ala, Arg470Leu, Asn473Asp, Ser474Glu and Ala477Asp were prepared to test the head-to-head dimer. When transiently expressed in 293 cells, which express low endogenous levels of EGFR (<1x10<sup>4</sup> receptors/cell), or when stably expressed (Glu21Ala) in the hemopoietic cell line BaF/3 which do not express EGFR family members (Walker et al., 1998, Growth Factors 16:53-67), these mutants showed normal EGF binding, kinase activation, dimerization (Figure 8) and internalization (data not shown). In contrast mutants of the back-to-back dimer, an S1 loop deletion (residues  $\Delta 242$ -259) from the full length receptor and sEGFR501 with multiple substitutions in the S1 loop (Tyr246Asp, Asn247Ala, Thr249Asp, Tyr251Glu, Gln252Ala and Met253Asp) were defective. The  $\Delta S1$ -loop clones fail to show ligand-induced dimerization and ligand-induced kinase activation and exhibit only low affinity binding (Figure 8A, B, C). The sEGFR501 mutants fail to show ligand-induced dimerization (Figure 8D) and exhibit 15 fold lower affinity binding on BIAcore (500 nM vs·30 nM for sEGFR501).

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#### Conclusion

Ligand-induced dimerisation (or oligomerisation) of receptors is a common means of signal transduction and in all cases seen so far the ligand participates directly in the dimerisation of receptors. For VEGF/Flt-1 (Wiesmann et al.,1997, Cell 91:695-704), nerve growth factor (NGF)/TrkA receptor (Weismann et al.,1999, Nature 401:184-188.), bone morphogenic protein (BMP)/BMP receptor (Kirsch et al., 2000, Nat. Struct. Biol. 7:492-496), interferon  $\gamma(IFN\gamma)/IFN\gamma$  receptor (Thiel et al., 2000, Structure Fold Des. 8:927-936) and tumour necrosis factor (TNF)/TNF receptor (Banner et al., 1993, Cell 73:431-445), the ligand is a dimer or trimer before forming the 2:2 complex or 3:3 complex, and in the structures determined, the receptors do not contact

each other. In the 2:2 complex of the fibroblast growth factor (FGF)/FGF receptor the ligands do not contact each other but are dimerised by heparin (Plotnikov et al., 2000, Cell 101:413-424; Schlessinger et al., 2000, Molecular Cell 6:743-750; Sorokin et al., 1994 J. Biol .Chem. 269:9752-9759; Pelligrini et al., 2000, Nature 407:1029-1034). The FGF receptors do contact each other and the two FGF ligands lie at the dimer interface with a heparin molecule sitting between two FGFs. In the 2:2 complex of granulocyte colony stimulating factor (GCSF)/GCSF receptor (Aritomi et al.,1999, Nature 401:713-715) each ligand binds both receptors but there are no contacts between the two ligands or the two receptor fragments. Finally, in the growth hormone, erythropoietin and prolactin/receptor complexes, there is only one ligand molecule in the 1:2 complex and the two receptor molecules make contact with ligand and with each other (de Vos et al.,1992, Science 255:306-312).

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The TGFα:EGFR complex represents a new and surprising way in which receptors and protein ligands interact. EGFR ligands bind at a site remote from the dimer interface and must modify the receptor to promote dimerisation. A precedent for this has been seen for much smaller ligands. For example, in the rat metabotrophic glutamate receptor, a disulfide-linked homodimer, binds glutamate between two domains of the receptor monomer, causing them to go from an 'open' to a 'closed' form (Kunishima et al.,2000, Nature 407:971-977). Such a mechanism could also occur in the EGFR family where the ligand binds both L1 and L2, fixing the relative orientations of the two domains. Compared to IGF-1R there is a substantial rearrangement of L domains in EGFR (Figure 5) although a conformational change of such a magnitude would not be necessary. A smaller change in L domain positions upon ligand binding, possibly with hinge motions seen at the S1 module 5/6, 6/7 and 7/L2 interfaces (relative to IGF-1R), could enable EGFR extracellular domains to form dimers.

The disclosure of all publications referred to in this application are include herein by reference.

It will be appreciated by persons skilled in the art that numerous variations and/or modifications may be made to the invention as shown in the specific embodiments without departing from the spirit or scope of the invention as broadly described. The present embodiments are, therefore, to be considered in all respects as illustrative and not restrictive.

#### Claims:

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- 1. A method of selecting or designing a compound that interacts with a receptor of the EGF receptor family and modulates an activity associated with the receptor, the method comprising
- (a) assessing the stereochemical complementarity between the compound and a topographic region of the receptor, wherein the receptor comprises:
  - (i) amino acids 1-501 of the EGF receptor positioned at atomic coordinates as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å;
  - (ii) one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations; or
  - (iii) amino acids present in the amino acid sequence of a receptor of the EGF receptor family, which form an equivalent three-dimensional structure to that of amino acids 1-501 of the EGF receptor positioned at atomic coordinates substantially as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets thereof,
  - (b) obtaining a compound which possesses stereochemical complementarity to a topographic region of the receptor; and
  - (c) testing the compound for its ability to modulate an activity associated with the receptor.
- 2. A method as claimed in claim 1 wherein the receptor is EGFR and the topographic region of EGFR is the ligand binding surface defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.
- 35 3. A method as claimed in claim 2 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding

surface of EGFR defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface of EGFR defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.

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- 4. A method as claimed in claim 1 wherein the receptor is ErbB-2 and the topographic region of ErbB2 is the surface defined by amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135 and 136, and/or the surface defined by amino acids 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475.
- 5. A method as claimed in claim 4 wherein the compound is selected or designed to have portions that match residues positioned on the surface of ErbB2 defined by amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135 and 136, and/or the surface of ErbB2 defined by amino acids 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475.
- 6. A method as claimed in claim 1 wherein the receptor is ErbB-3 and the topographic region of ErbB-3 is the ligand binding surface defined by amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131 and 132, and/or the ligand binding surface defined by amino acids 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466.

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- 7. A method as claimed in claim 6 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of ErbB-3 defined by amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131 and 132, and/or the ligand binding surface of ErbB-3 defined by amino acids 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466.
- 8. A method as claimed in claim 1 wherein the receptor is ErbB-4 and the topographic region of ErbB-4 is the ligand binding surface defined by amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, and/or the ligand binding surface defined by amino acids 326, 347,

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349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468.

- 9. A method as claimed in claim 8 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of ErbB-4 defined by amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, and/or the ligand binding surface of ErbB-4 defined by amino acids 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468.
- 10. A method as claimed in claim 1 wherein the compound is selected or designed to interact with a site within 5 Å of atomic positions of the EGF receptor listed in Appendices III or IV or corresponding regions of other members of the EGF receptor family, such that the compound interferes
- allosterically with the binding of a natural ligand to a member of the EGF receptor family.
  - 11. A method of selecting or designing a compound that inhibits the formation of active dimers of receptors of the EGF receptor family, the method comprising:
  - (a) assessing the stereochemical complementarity between the compound and a topographic region of the receptor, wherein the receptor comprises:
    - (i) amino acids 1-501 of the EGF receptor positioned at atomic coordinates as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å;
    - (ii) one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations; or
    - (iii) amino acids present in the amino acid sequence of a receptor of the EGF receptor family, which form an equivalent three-dimensional structure to that of amino acids 1-501 of the EGF receptor positioned at atomic coordinates substantially as shown in Appendix I or Appendix II, or structural coordinates having a root

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- mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets thereof,
- (b) obtaining a compound which possesses stereochemical complementarity to a topographic region of the receptor; and

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- (c) testing the compound for its ability to inhibit the formation of active dimers of the receptors.
- 12. A method as claimed in claim 11 wherein the receptor is EGFR and the topographic region of the EGFR to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.
- 13. A method as claimed in claim 12 wherein the compound is selected or designed to have portions that match residues positioned on the dimer interface of EGFR defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.
  - 14. A method as claimed in claim 11 wherein the receptor is ErbB-2 and the topographic region of the ErbB-2 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 36, 84, 202, 203, 211, 212, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326 and/or the dimer interface defined by amino acids 84, 201, 202, 211, 212, 236, 237, 246, 249, 251-253, 255-260, 269-272, 282, 285-287 and 289-294.
  - 15. A method as claimed in claim 14 wherein the compound is selected or designed to have portions that match residues positioned on the dimer interface of ErbB-2 defined by amino acids 36, 84, 202, 203, 211, 212, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326 and/or the dimer interface defined by amino acids 84, 201, 202, 211, 212, 236, 237, 246, 249, 251-253, 255-260, 269-272, 282, 285-287 and 289-294.

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- 16. A method as claimed in claim 11 wherein the receptor is ErbB-3 and the topographic region of the ErbB-3 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 41, 89, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287 and 317 and/or the dimer interface defined by amino acids 89, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-279 and 281-286.
- 17. A method as claimed in claim 16 wherein the compound is selected or designed to have portions that match residues positioned on the dimer interface of ErbB-3 defined by amino acids 41, 89, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287 and 317 and/or the dimer interface defined by amino acids 89, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-279 and 281-286.
  - 18. A method as claimed in claim 11 wherein the receptor is ErbB-4 and the topographic region of the ErbB-4 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 40, 88, 196, 197, 206, 207, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319 and/or the dimer interface defined by amino acids 88, 195, 196, 206, 207, 231, 232, 241, 244, 246-248, 250-255, 264-267, 277, 280-281 and 283-286.
- A method as claimed in claim 18 which further comprises selecting or designing a compound which has portions that match residues positioned on the dimer interface of ErbB-4 defined by amino acids 40, 88, 196, 197, 206, 207, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319 and/or the dimer interface defined by amino acids 88, 195, 196, 206, 207, 231, 232, 241, 244, 246-248, 250-255, 264-267, 277, 280-281 and 283-286.
  - 20. A method as claimed in any one of claims 11 to 19 wherein the compound is designed or selected to comprise a first domain which interacts with the dimer interface of a first EGF receptor family member and a second domain which interacts with the dimer interface of a second EGF receptor family member.

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- 21. A computer-assisted method for identifying potential compounds able to interact with a member of the EGF receptor family and thereby modulate an activity mediated by receptor, using a programmed computer comprising a processor, an input device, and an output device, comprising the steps of:
  - (a) inputting into the programmed computer, through the input device, data comprising the atomic coordinates of amino acids 1-501 of the EGF receptor molecule as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets of said amino acids, or one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations;
  - (b) generating, using computer methods, a set of atomic coordinates of a structure that possesses stereochemical complementarity to a topographic region of the EGF receptor molecule, wherein the EGF receptor molecule is characterised by the atomic coordinates of amino acids 1-501 as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets of said amino acids, or one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations, thereby generating a criteria data set;
  - (c) comparing, using the processor, the criteria data set to a computer database of chemical structures;
  - (d) selecting from the database, using computer methods, chemical structures which are similar to a portion of said criteria data set; and
  - (e) outputting, to the output device, the selected chemical structures which are complementary to or similar to a portion of the criteria data set.
- 22. A method as claimed in claim 21 wherein the receptor is EGFR and the topographic region of EGFR is the ligand binding surface defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface defined by amino acids 325, 346, 348-

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350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.

- 23. A method as claimed in claim 22 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of EGFR defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface of EGFR defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.
- 24. A method as claimed in claim 21 wherein the receptor is ErbB-2 and the topographic region of ErbB2 is the surface defined by amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135 and 136, and/or the surface defined by amino acids 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475.
  - 25. A method as claimed in claim 24 wherein the compound is selected or designed to have portions that match residues positioned on the surface of ErbB2 defined by amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135 and 136, and/or the surface of ErbB2 defined by amino acids 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475.
- 26. A method as claimed in claim 21 wherein the receptor is ErbB-3 and the topographic region of ErbB-3 is the ligand binding surface defined by amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131 and 132, and/or the ligand binding surface defined by amino acids 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466.
  - 27. A method as claimed in claim 26 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of ErbB-3 defined by amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131 and 132, and/or the ligand binding surface of ErbB-3 defined by amino acids 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466.

- 28. A method as claimed in claim 21 wherein the receptor is ErbB-4 and the topographic region of ErbB-4 is the ligand binding surface defined by amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, and/or the ligand binding surface defined by amino acids 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468.
- 29. A method as claimed in claim 28 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of ErbB-4 defined by amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, and/or the ligand binding surface of ErbB-4 defined by amino acids 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468.

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30. A method as claimed in claim 21 wherein the receptor is EGFR and the topographic region of the EGFR to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.

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31. A method as claimed in claim 30 wherein the compound is selected or designed to have portions that match residues positioned on the dimer interface of EGFR defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.

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32. A method as claimed in claim 21 wherein the receptor is ErbB-2 and the topographic region of the ErbB-2 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 36, 84, 202, 203, 211, 212, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326 and/or the dimer interface defined by amino acids

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84, 201, 202, 211, 212, 236, 237, 246, 249, 251-253, 255-260, 269-272, 282, 285-287 and 289-294.

33. A method as claimed in claim 32 wherein the compound is selected or designed to have portions that match residues positioned on the dimer interface of ErbB-2 defined by amino acids 36, 84, 202, 203, 211, 212, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326 and/or the dimer interface defined by amino acids 84, 201, 202, 211, 212, 236, 237, 246, 249, 251-253, 255-260, 269-272, 282, 285-287 and 289-294.

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34. A method as claimed in claim 21 wherein the receptor is ErbB-3 and the topographic region of the ErbB-3 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 41, 89, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287 and 317 and/or the dimer interface defined by amino acids 89, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-279 and 281-286.

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designed to have portions that match residues positioned on the dimer interface of ErbB-3 defined by amino acids 41, 89, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287 and 317 and/or the dimer interface defined by amino acids 89, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-279 and 281-286.

A method as claimed in claim 34 wherein the compound is selected or

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36. A method as claimed in claim 21 wherein the receptor is ErbB-4 and the topographic region of the ErbB-4 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 40, 88, 196, 197, 206, 207, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319 and/or the dimer interface defined by amino acids 88, 195, 196, 206, 207, 231, 232, 241, 244, 246-248, 250-255, 264-267, 277, 280-281 and 283-286.

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37. A method as claimed in claim 36 which further comprises selecting or designing a compound which has portions that match residues positioned on the dimer interface of ErbB-4 defined by amino acids 40, 88, 196, 197, 206,

- 207, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319 and/or the dimer interface defined by amino acids 88, 195, 196, 206, 207, 231, 232, 241, 244, 246-248, 250-255, 264-267, 277, 280-281 and 283-286.
- 38. A method as claimed in any one of claims 21 to 37 which further comprises the step of obtaining a compound with a chemical structure selected in steps (d) and (e), and testing the compound for the ability to decrease an activity mediated by the receptor.
- 10 39. A method as claimed in claim 38 wherein the test is carried out in vitro.
  - 40. A method as claimed in claim 39 wherein the *in vitro* test is a high throughput assay.
- 15 41. A method as claimed in claim 38 wherein the test is carried out in vivo.
- 42. A method as claimed in any one of claims 1 to 41 wherein the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-6</sup>M.
  - 43. A method as claimed in any one of claims 1 to 41 wherein the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-8</sup>M
  - 44. A method as claimed in any one of claims 1 to 41 wherein the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-9</sup>M.
- 30 45. A method as claimed in any one of claims 1 to 44 wherein the compound is selected or modified from a known compound identified from a data base.
  - 46. A method as claimed in any one of claims 1 to 45 wherein the method is used to identify potential compounds which have the ability to decrease an activity mediated by the receptor.

47. A computer for producing a three-dimensional representation of a molecule or molecular complex, wherein the computer comprises:

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- (a) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein the machine readable data comprise the atomic coordinates of amino acids 1-501 of the EGF receptor molecule as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or one or more subsets of said amino acids, or one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations;
- (b) a working memory for storing instructions for processing the machine-readable data;
- a central-processing unit coupled to the working memory and to the machine-readable data storage medium, for processing the machine-readable data into the three dimensional representation; and
- (d) an output hardware coupled to the central processing unit, for receiving the three-dimensional representation.
- 48. A computer as claimed in claim 47 wherein the subset of amino acids are the amino acids (i) defining either or both the ligand binding surface(s), or (ii) defining dimerization interface.
- 49. A compound able to interact with a member of the EGF receptor family and to modulate an activity mediated by the receptor, the compound being obtained by a method according to any one of claims 1 to 46.
- 30 50. A compound as claimed in claim 49 which is a mutant of the natural ligand of a receptor of the EGF receptor family, where at least one mutation occurs in the region of the natural ligand which interacts with the receptor.
  - 51. A pharmaceutical composition for preventing or treating a disease associated with signaling by a molecule of the EGF receptor family which

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comprises a compound according to claim 49 or claim 50 and a pharmaceutically acceptable carrier or diluent.

- 52. A method of preventing or treating a disease associated with signaling by a molecule of the EGF receptor family which method comprises administering to a subject in need thereof a compound identified by a method comprising the step of the step of assessing the stereochemical complementarity between the compound and a topographic region of the receptor, wherein the receptor is characterised by:-
  - (i) amino acids 1-501 of the EGF receptor positioned at atomic coordinates as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å;
    - (ii) one or more subsets of said amino acids related to the coordinates shown in Appendix I or Appendix II by whole body translations and/or rotations; or
    - (iii) amino acids present in the amino acid sequence of a member of the EGF receptor family, which form an equivalent threedimensional structure to that of amino acids 1-501 of the EGF receptor positioned at atomic coordinates substantially as shown in Appendix I or Appendix II, or structural coordinates having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5Å, or a subset thereof.
- 25 53. A method as claimed in claim 52 wherein the receptor is EGFR and the topographic region of EGFR is the ligand binding surface defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.
  - 54. A method as claimed in claim 53 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of EGFR defined by amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101-103, 125, 127 and 128, and/or the ligand binding surface of

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EGFR defined by amino acids 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467.

- 55. A method as claimed in claim 52 wherein the receptor is ErbB-2 and the topographic region of ErbB2 is the surface defined by amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135 and 136, and/or the surface defined by amino acids 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475.
- 56. A method as claimed in claim 55 wherein the compound is selected or designed to have portions that match residues positioned on the surface of ErbB2 defined by amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135 and 136, and/or the surface of ErbB2 defined by amino acids 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475.
  - 57. A method as claimed in claim 52 wherein the receptor is ErbB-3 and the topographic region of ErbB-3 is the ligand binding surface defined by amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131 and 132, and/or the ligand binding surface defined by amino acids 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466.
- 58. A method as claimed in claim 57 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of ErbB-3 defined by amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131 and 132, and/or the ligand binding surface of ErbB-3 defined by amino acids 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466.
  - 59. A method as claimed in claim 52 wherein the receptor is ErbB-4 and the topographic region of ErbB-4 is the ligand binding surface defined by amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, and/or the ligand binding surface defined by amino acids 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468.

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- 60. A method as claimed in claim 59 wherein the compound is selected or designed to have portions that match residues positioned on the ligand binding surface of ErbB-4 defined by amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, and/or the ligand binding surface of ErbB-4 defined by amino acids 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468.
- 61. A method as claimed in claim 52 wherein the compound is selected or designed to interact with a site within 5 Å of atomic positions of the EGF receptor listed in Appendices III or IV or corresponding regions of other members of the EGF receptor family, such that the compound interferes allosterically with the binding of a natural ligand to a member of the EGF receptor family.

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62. A method as claimed in claim 52 wherein the receptor is EGFR and the topographic region of the EGFR to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.

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63. A method as claimed in claim 62 wherein the compound is selected or designed to have portions that match residues positioned on the dimer interface of EGFR defined by amino acids 38, 86, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318 and/or the dimer interface defined by amino acids 86, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-280 and 282-287.

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64. A method as claimed in claim 52 wherein the receptor is ErbB-2 and the topographic region of the ErbB-2 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 36, 84, 202, 203, 211, 212, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326 and/or the dimer interface defined by amino acids

- 84, 201, 202, 211, 212, 236, 237, 246, 249, 251-253, 255-260, 269-272, 282, 285-287 and 289-294.
- 65. A method as claimed in claim 64 which further comprises selecting or designing a compound which has portions that match residues positioned on the dimer interface of ErbB-2 defined by amino acids 36, 84, 202, 203, 211, 212, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326 and/or the dimer interface defined by amino acids 84, 201, 202, 211, 212, 236, 237, 246, 249, 251-253, 255-260, 269-272, 282, 285-287 and 289-294.

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66. A method as claimed in claim 52 wherein the receptor is ErbB-3 and the topographic region of the ErbB-3 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 41, 89, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287 and 317 and/or the dimer interface defined by amino acids 89, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-279 and 281-286.

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67. A method as claimed in claim 66 which further comprises selecting or designing a compound which has portions that match residues positioned on the dimer interface of ErbB-3 defined by amino acids 41, 89, 194, 195, 204, 205, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287 and 317 and/or the dimer interface defined by amino acids 89, 193, 194, 204, 205, 229, 230, 239, 242, 244-246, 248-253, 262-265, 275, 278-279 and 281-286.

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68. A method as claimed in claim 52 wherein the receptor is ErbB-4 and the topographic region of the ErbB-4 to which the compound, or a portion thereof, has stereochemical complementarity is the dimer interface defined by amino acids 40, 88, 196, 197, 206, 207, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319 and/or the dimer interface defined by amino acids 88, 195, 196, 206, 207, 231, 232, 241, 244, 246-248, 250-255, 264-267, 277, 280-281 and 283-286.

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69. A method as claimed in claim 68 which further comprises selecting or designing a compound which has portions that match residues positioned on the dimer interface of ErbB-4 defined by amino acids 40, 88, 196, 197, 206,

- 207, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319 and/or the dimer interface defined by amino acids 88, 195, 196, 206, 207, 231, 232, 241, 244, 246-248, 250-255, 264-267, 277, 280-281 and 283-286.
- 70. A method as claimed in any one of claims 62 to 69 wherein the compound is designed or selected to comprise a first domain which interacts with the dimer interface of a first EGF receptor family member and a second domain which interacts with the dimer interface of a second EGF receptor family member.

- 71. A method as claimed in any one of claims 52 to 70 wherein the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-6</sup>M.
- 15 72. A method as claimed in any one of claims 52 to 71 wherein the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-8</sup>M
- 73. A method as claimed in any one of claims 52 to 72 wherein the stereochemical complementarity between the compound and the receptor is such that the compound has a Kd for the receptor site of less than 10<sup>-9</sup>M.
  - 74. A method as claimed in any one of claims 52 to 73 wherein the compound is selected or modified from a known compound identified from a data base.
  - 75. A method as claimed in any one of claims 52 to 74 wherein the disease is selected from the group consisting of psoriasis and tumour states.
- 76. A method as claimed in claim 75 wherein the tumour state is selected from the group consisting of cancer of the breast, brain, colon, prostate, ovary, cervix, pancreas, lung, head and neck, and melanoma, rhabdomyosarcoma, mesothelioma, squamous carcinomas of the skin and glioblastoma.
- 35 77. A method for evaluating the ability of a chemical entity to bind to EGFR, said method comprising the steps of:

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- (a) creating a computer model of at least one region of EGFR using structure coordinates wherein the root mean square deviation between said structure coordinates and the structure coordinates of amino acids 1-501 of EGFR as set forth in Appendix I or Appendix II is not more than about 1.5 Å;
- (b) employing computational means to perform a fitting operation between the chemical entity and said computer model of the binding surface; and
- (c) analysing the results of said fitting operation to quantify the association between the chemical entity and the binding surface model.
- 78. A method of utilizing molecular replacement to obtain structural information about a molecule or a molecular complex of unknown structure, comprising the steps of:
  - (i) crystallising said molecule or molecular complex;
    - (ii) generating an X-ray diffraction pattern from said crystallized molecule or molecular complex;
    - (iii) applying at least a portion of the structure coordinates set forth in Appendix I or Appendix II to the X-ray diffraction pattern to generate a three-dimensional electron density map of at least a portion of the molecule or molecular complex whose structure is unknown.
- 79. A crystalline composition comprising amino acids 1-501 of the EGF receptor or a portion thereof.
  - 80. A method of assessing the interaction between a compound and the EGF receptor, the method comprising exposing a crystalline composition comprising amino acids 1-501 of the EGF receptor or a portion thereof to the compound and measuring the level of binding to the crystal.
  - 81. A polypeptide complex in a crystallized form comprising the amino acids 1-501 of EGFR and  $TGF\alpha$ .
- 35 82. A variant of a ligand of the EGF receptor family in which the sequence of the ligand is modified such that the ability to interact with the L1 domain of the

member of the EGF receptor family is retained or increased and the ability to interact with the L2 domain of the member of the EGF receptor family is removed or decreased, or vice versa.

- A variant of a ligand of the EGF receptor family in which the sequence of 5 83. the ligand is modified such that the ability to interact with the L1 domain of a member of the EGF receptor family is retained or increased and the ability to interact with the L2 domain of a member of the EGF receptor family is retained or increased, with the proviso that the binding to at least one of L1 or L2 is increased. 10
  - A variant as claimed in claim 82 or claim 83 in which the ligand is 84 selected from the group consisting of EGF, TGF-α, amphiregulin, HB-EGF, betacellulin, epiregulin, epigen, NRG1 $\alpha$ , NRG1 $\beta$ , NRG2 $\alpha$ , NRG $\beta$ , NRG3 and NRG4.
    - A variant as claimed in claim 84 wherein the ligand is  $TGF\alpha$ . 85.

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- A TGF $\alpha$  variant as claimed in claim 85 wherein the TGF $\alpha$  is modified at 86. one more amino acids selected from the group consisting of amino acids 3-5, 8, 20 9, 11-15, 17, 18, 22, 24, 26, 27, 29-34, 36 and 38-50.
  - An extracellular fragment of EGFR, wherein the fragment is modified at 87. one or more amino acids selected from the group consisting of
  - (i) amino acids 11-18, 20, 22, 26, 29, 30, 45, 69, 89, 90, 98, 99, 101103, 125, 127, 128, 325, 346, 348-350, 353-358, 382, 384, 408, 409, 411, 412, 415, 417, 418, 438, 440, 465 and 467, or
    - (ii) amino acids 38, 86, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-280, 282-288 and 318,
- wherein the modification increases the affinity of the fragment for one or more 30 of its natural ligands when compared to the unmodified fragment.
  - An extracellular fragment of ErbB-2, wherein the fragment is modified at 88. one or more amino acids selected from the group consisting of

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- (i) amino acids 9-16, 18, 20, 24, 27, 28, 43, 67, 87, 88, 96, 97, 99-101, 133, 135, 136, 333, 354, 359-358, 361-366, 390, 392, 416, 417, 419, 420, 423, 425, 426, 446, 448, 473 and 475, or
- (ii) amino acids 36, 84, 201- 203, 211, 212, 236, 237, 246, 249-253, 255-260, 269-272, 282, 285-287, 289-295 and 326.

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

- 89. An extracellular fragment of ErbB-3, wherein the fragment is modified at one or more amino acids selected from the group consisting of
  - (i) amino acids 14-21, 23, 25, 29, 32, 33, 48, 72, 92, 93, 101, 102, 104-106, 129, 131, 132, 322, 343, 345-347, 350-355, 379, 381, 405, 406, 408, 409, 412, 414, 415, 436, 438, 464 and 466, or
  - (ii) amino acids 41, 89, 193-195, 204, 205, 229, 230, 239, 242-246, 248-253, 262-265, 275, 278-279, 281-287, 317.

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

- 90. An extracellular fragment of ErbB-4, wherein the fragment is modified at one or more amino acids selected from the group consisting of
  - (i) amino acids 13-20, 22, 24, 28, 31, 32, 47, 71, 91, 92, 100, 101, 103-105, 128, 130, 131, 326, 347, 349-351, 354-359, 383, 385, 409, 410, 411, 412, 415, 417, 418, 439, 441, 466 and 468, or
  - (ii) amino acids 40, 88, 195-197, 206, 207, 231, 232, 241, 244-248, 250-255, 264-267, 277, 280-281, 283-289 and 319.

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

- 91. An extracellular fragment of EGFR wherein the fragment is modified at one or more amino acids of EGFR selected from the group consisting of:
  - (i) amino acids 5, 6, 8-10, 19, 21-25, 28, 32, 33, 38, 39, 40, 42, 44, 47, 48, 50, 63, 64, 66, 68, 71, 73, 87, 88, 91-94, 96, 104-107, 109, 123, 130, 131, 151-160, 315-324, 326, 328, 329, 331, 332, 343, 344, 351, 359-363, 379, 380, 385, 387, 388, 394, 404-407, 410, 413, 420, 434-436, 440, 441, 443, 448, 449, 461-464, 466-468; or

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(ii) amino acids 1-6, 8,9, 11, 30, 35, 36, 39, 40, 60, 62-64, 82, 84, 85, 87-89, 94, 118, 120-122, 148, 187-193, 196-198, 200-203, 209-211, 213, 215, 217-221, 231-233, 235, 237, 238, 241, 243, 244, 247, 254-261, 266, 268-270, 272-274, 276, 277, 281, 289-297, 299-301, 303, 304, 311, 312, 314-317, 319-323, 335, 340, 342-344, 346, 376, 378-380, 403-412, 434, 459,

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

10 92. An extracellular fragment of ErbB-2 wherein the fragment is modified at one or more amino acids of ErbB-2 selected from the group consisting of:

(i) amino acids 3,4, 6-8, 17, 19-23, 26, 30, 31, 36, 37, 38, 40, 42, 45, 46, 48, 61, 62, 64, 66, 69, 71, 85, 86, 89-92, 94, 102-115, 117, 131, 138, 139, 159-168, 323-323, 334, 336, 337, 339, 340, 351, 352, 359, 367-371, 387, 388, 393, 395, 397, 402, 412-415, 418, 421, 428, 442-444, 448, 449, 451, 456, 457, 469-472, and 472-476, or
(ii) amino acids 1-4, 6, 7, 9, 28, 33, 34, 37, 38, 58, 60-62, 80, 82, 83, 85-87, 92, 126, 128-130, 156, 195-201, 204-206, 208-211, 217-219, 221, 223, 225-229, 239-241, 243, 245, 246, 249, 251, 252, 255, 262-269, 274, 276-278, 280-282, 284, 285, 289, 297-305, 307-309, 311, 312, 319, 320, 322-325, 327-231, 343, 348, 350-352, 354, 384, 386-388, 411-420, 442, and 467,

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

93. An extracellular fragment of ErbB-3 wherein the fragment is modified at one or more amino acids of ErbB-3 selected from the group consisting of:

(i) amino acids 8, 9, 11-13, 22, 24-28, 31, 35, 36, 41, 42, 43, 45, 47, 50, 51, 53, 66, 67, 69, 71, 74, 76, 90, 91, 94-97, 99, 107-111, 113, 127, 134, 135, 154-159, 314-321, 323, 325, 326, 328, 329, 340, 341, 348, 356-360, 376, 373, 382, 384, 385, 391, 401-404, 407, 410, 418, 432-434, 438, 439, 441, 446, 447, 459-462, and 464-466, or (ii) amino acids 4-9, 11, 12, 14, 33, 38, 39, 42, 43, 63, 65-67, 85, 87, 88, 90-92, 97, 122, 124-126, 152, 187-193, 196-198, 200-203, 209-211, 213, 215, 217-221, 231-233, 235, 237, 238, 241, 243, 244, 247, 254-261, 266, 268-270, 272-274, 276, 277, 280, 288-296, 298-300, 302, 303, 310,

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311, 313-316, 318-320, 332, 337, 339-341, 343, 373, 375-377, 400-409, 432 and 457,

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

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435 and 460

- 94. An extracellular fragment of ErbB-4 wherein the fragment is modified at one or more amino acids of ErbB-4 selected from the group consisting of:
- (i) amino acids 7, 8, 10-12, 21, 23-27, 30, 34, 35, 40, 41, 42, 44, 46, 49, 50, 52, 65, 66, 68, 70, 73, 75, 89, 90, 93-96, 98, 106-110, 112, 126, 133, 134, 154-163, 316-325, 327, 329, 330, 332, 333, 344, 345, 352, 360-364, 380, 381, 386, 388, 389, 395, 405-408, 413, 421, 435-437, 441, 442, 444, 449, 450, 462-465 and 467-469 or
  (ii) amino acids 3-8, 10, 11 13, 32, 37, 38, 41, 42, 62, 64-66, 84, 86, 87, 89-91, 96, 121, 123-125, 151, 189-195, 198-200, 202-205, 207-213, 215, 217, 219-223, 233-235, 237, 239, 240, 243, 245, 246, 249, 256-263, 268, 270-272, 274-276, 278, 279, 282, 290-298, 300-302, 304, 305, 312, 313, 315-318, 320-324, 336, 341, 343-345, 347, 377, 379-381, 404-412,

wherein the modification increases the affinity of the fragment for one or more of its natural ligands when compared to the unmodified fragment.

95. A compound comprising fragment 1-501 of EGFR or an equivalent fragment of a member of the EGF receptor family, wherein the fragment is modified to induce dimerisation of the fragment in back-to-back configuration.

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- 96. A compound as claimed in claim 95 wherein the modification is made to a residue of the fragment which forms part of the back-to-back dimer interface.
- 97. A compound as claimed in claim 96 wherein the modification involves substitution of at least one residue which forms part of the back to back dimer with a cysteine residue.
  - 98. A compound comprising fragment 1-501 of EGFR wherein the fragment comprises the substitution P248C and/or A265C.

- 99. A compound comprising fragment 1-501 of EGFR wherein the fragment comprises the substitution D279C.
- 100. A compound as claimed in claim 95 wherein the modification involvesinsertion of a dimerization sequence into the fragment.
  - 101. A compound as claimed in claim 100 wherein the dimerization sequence is inserted between residues 194 and 195 or between residues 204 and 205 of EGFR or equivalent residues of another member of the EGF receptor family.
- 102. A compound as claimed in any one of claims 95 to 101 wherein the fragment is conjugated to a molecule.
- 103. A compound as claimed in claim 102 wherein the molecule is a constant domain of an immunoglobulin molecule.
  - 104. An antibody which binds to EGFR, the antibody being directed against (i) EGFR residues 100-108, 315-327 or 353-362; or (ii) EGFR residues 190-207, 240-305 or parts thereof.
  - 105. An antibody which binds to ErbB-2, the antibody being directed against (i) ErbB-2 residues 98-116, 323-335 or 361-374; or (ii) ErbB-2 residues 198-214, 247-313 or parts thereof.
- 106. An antibody which binds to ErbB-3, the antibody being directed against
  (i) ErbB-3 residues 103-112, 314-324 or 350-363; or (ii) ErbB-3 residues 190-207, 240-304 or parts thereof.
- 107. An antibody which binds to ErbB-4, the antibody being directed against (i) ErbB-4 residues 102-111, 316-328, 354-367; or (ii) ErbB-4 residues 192-209, 242-306 or parts thereof.

Table 1 Summary of crystallographic data

0.129				Transling Tower L.O.III.	I.O.M. Č
	96.9 (2.78)				0.31/0.84
0.095	97.8 (3.85)	7	0.71	0.71	
0.075	90.2 (3.17)	7	0.91	0.91	
0.091	97.8 (3.43)	4	0.21	2.21	
No. of reflections (free) No. of atoms	s Reryst	. Rfree	Bonds	Bonds <sup>¶</sup> (Å)Angles <sup>¶</sup> (°)	
. 8687	0.237	0.289	0.007	1.50	
48006 (2379)		. 8687	8687 0.237	8687 0.237 0.289	8687 0.237 0.289 0.007

PIP, di- $\mu$ -iodobis(ethylenediamine)diplatinum nitrate (Unit cell a=52.02 Å, b=198.17 Å, c=78.43 Å,  $\beta=102.95^{\circ}$ )

\*  $R_{\text{mergo}} = \sum_{h} \sum_{j} |I_{h,j} - I_{h}| / \sum_{h} \sum_{j} I_{h}$ , where  $I_{h,j}$  is an intensity measurement j and  $I_h$  is the mean for a reflection h.

<sup>†</sup>  $R_{\text{Cullis}} = \sum_h ||F_{\text{PH}} - F_{\text{P}}| - |F_{\text{Hoale}}|| / \sum_h ||F_{\text{PH}}| - |F_{\text{P}}||$ , where  $F_{\text{PH}}$ ,  $F_{\text{P}}$  and  $F_{\text{Hoale}}$  are, respectively, derivative, native and heavy atom structure factors for centric reflection h.

† Phasing power =  $\Sigma_h |F_{\text{Heale}}| / \Sigma_h \epsilon$ , where  $F_{\text{Heale}}$  is defined above and  $\epsilon$  is the lack of closure.

f.o.m. (figure of merit) =  $\langle \cos(\Delta \alpha_h) \rangle$ , where  $\Delta \alpha_h$  is the error in the phase angle for reflection h. Values are given before and after density modification.

# Reryst and Rfree are defined in .

<sup>¶</sup> R.m.s. deviation for bond distances and angles.

## 1/10

P 74 P 79.	S 145 H 153 R 149 R 148	2224 2224 224 224	302 310 3301 3303	L 381 L 389 L 378 L 382	T 459 N 467 G 457 T 460	
LELTIVORNIDLSFLATIOEVAGIVLIAHNOVROVE LELTYLPTHADLSFLODIOEVOGYVLIAHNOVROVE LEITSIEHNRDLSFLRSVREVTGYVLVALNOFRYLE	KTGLKELPMRNLQEILHGAVRFSNNPALCNVESIQWRDIVS TGASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWKDIFH SHALRQLRLTQLTEILSGGVYIEKNDKLCHMDTIDWRDIVR NFGLQELGLKNLTEILNGGVYVDQNKFLCYADTIHWQDIVR	IICAQQCSGRCRGKSPSDCCHNQCAAGCTGPRESDC IVCAGGCA-RCKGPLPTDCCHEQCAAGCTGPKHSDC IICAPQCNGHCFGPNPNQCCHDECAGGCSGPQDTDC IVCAEQCDGRCYGPYVSDCCHRECAGGCSGPKDTDC	VKKCPRNYVVTDHGSCVRACGADSYEMEED-GVRKC VTACPYNYLSTDVGSCTLVCPLHNQEVTAEDGTQRC VASCPHNEVVDQ-TSCVRACPPDKMEVDKN-GLKMC VKKCPHNEVVDS-SSCVRACPSSKMEVEEN-GIKMC	HILPVAFRGDSFTHTPPLDPQELDILKTVKEITGFI AFLPESFDGDPASNTAPLQPEQLQVFETLEEITGYI DFLITGLNGDPWHKIPALDPEKLNVFRTVREITGYI IFLVTGIHGDPYNALEAIDPEKLNVFRTVREITGFI	LHAFENLEIIRGRTKQHGQFSLAVVSL-NITSLGLRSLKEISDGDVIISGNKNLCYANTINWKKLFGT LSVFQNLQVIRGRILHNGAYSĻTLGGL-GISWLGLRSLRELGSGLALIHHNTHLCFVHTVPWDQLFRN FSVFSNLTTIGGRSLYNRGFSLLIMKNINVTSLGFRSLKEISAGRIYISANRQLCYHHSLNWTKVLRG FSVFSNLVTIGGRVLYS-GLSLLIKQQGITSLQFQSLKEISAGNIYITDNSNLCYYHTINWTTLFST	501 509 500 502
LEEKKVCQGTSNKLIQLGIFEDARFLSLQKKIFNNCEVVLGNIELLITVENNILLSTENTEGETYNTY	LENLQIIRGNMYYENSYALAVLSNYDANKTGLKELPMRNLQEILHGAVRFSNNPALCNVESIQWRDIVS	SDFLSNMSMDFQNHLGSCQKCDPSCPNGSCWGAGEENCQKLTKIICAQQCSGRCRGKSPSDCCHNQCAAGCTGPRESDCKNNQLALTLIDTNRSRACHPCSPMCKGSRCWGESSEDCQSLTRTVCAGGCA-RCKGPLPTDCCHEQCAAGCTGPKHSDCDRDA-EIVVKD-NG-RSCPPCHEVCKG-RCWGPGSEDCQTLTKTICAPQCNGHCFGPNPNQCCHDECAGGCSGPQDTDCNDA-EIVVKD-NG-RSCPPCHEVCKG-RCWGPGSEDCQTLTKTICAPQCNGHCFGPNPNQCCHDECAGGCSGPRDTDCNPWPSNLTLVSTNGSSGCGRCHKSCTG-RCWGPTENHCQTLTRTVCAEQCDGRCYGPYVSDCCHRECAGGCSGPKDTDC	LVCRKFRDEATCKDTCPPLMLYNPTTYQMDVNPEGKYSFGATCVKKCPRNYVYTDHGSCVRACGADSYEMEED-GVRKC	KKCEGPCRKVCNGIGIGEFKDSLSINATNIKHFKNCTSISGDLHILPVAFRGDSFTHTPPLDPQELDILKTVKEITGFL	LIQAWPENRTDLHAFENLEIIRGRTKQHGQFSLAVVSL-NITSLGLRSLKEISDGDVIISGNKNLCYANTINWKKLFGT	S-GQKTKIISNRGENSCKATGQVCHALCSPEGCWGPEPRDCVS
STQVCTGTDMKLRLPASPETHLDMLRHLYQGCQVVQGNLELTYLPTNASLSFLQDIQEVQGYVLIAHNQVRQVP	LQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWKDIFH		LACLHFNHSGICELHCPALVTYNTDTFESMPNPEGRYTFGASCVTACPYNYLSTDVGSCTLVCPLHNQEVTAEDGTQRC	EKCSKPCARVCYGLGMEHLREVRAVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQLQVFETLEEITGYL	YISAWPDSLPDLSVFQNLQVIRGRILHNGAYSLTLGGL-GISWLGLRSLRELGSGLALIHHNTHLCFVHTVPWDQLFRN	P-HQALLHTANRPEDECVGEGLACHQLCARGHCWGPGPTQCVN
SEVGNSQAVCPGTLNGLSVTGDAENQYQTLYKLYERCEVVMGNLEITVLTGHNADLSFLQWIREVTGYVLVAMNEFSTLP	LPNLRVVRGTQVYDGKFAIFVMLNYNTNSSHALRQLRITQLTEILSGGVYIEKNDKLCHMDTIDWRDIVR		FACRHFNDSGACVPRCPQPLVYNKLTFQLEPNPHTKYQYGGVCVASCPHNFVVDQ-TSCVRACPPDKMEVDKN-GLKMC	EPCGGLCPKACEGTGSGSRFQTVDSSNIDGFVNCTKILGNLDFLITGLNGDPWHKIPALDPEKLNVFRTVREITGYL	NIQSWPPHMHNFSVFSNLTTIGGRSLYNRGFSLLIMKNLNVTSLGFRSLKEISAGRIYISANRQLCYHHSLNWTKVLRG	PTEERLDIKHNRPRRDCVAEGKVCDPLCSSGGCWGPGPGQCLS
-QPSDSQSVCAGTENKLSSLSDLEQQYRALRKYYENCEVVMGNLEITSIEHNRDLSFLRSVREVTGYVLVALNQFRYLP	LENLRIIRGTKLYEDRYALAIFLNYRKDGNFGLQELGLKNLTEILNGGVYVDQNKFLCYADTIHWQDIVR		FACMNFNDSGACVTQCPQTFVYNPTTFQLEHNFNAKYTYGAFCVKKCPHNFVVDS-SSCVRACPSSKMEVEEN-GIKMC	KPCTDICPKACDGIGTGSLMSAQTVDSSNIDKFINCTKINGNLIFLVTGIHGDPYNAIEAIDPEKLNVFRTVREITGFL	NIQSWPPNMTDFSVFSNLVTIGGRVLYS-GLSLLILKQQGITSLQFQSLKEISAGNIYITDNSNLCYYHTINWTTLFST	I-NORIVIRDNRKAENCTAEGMVCNHLCSSDGCWGPGPDQCLS
EGFR	EGFR	EGFR	EGFR	EGFR	EGFR	EGFR
ErbB-2	ErbB-2	ErbB-2	ErbB-2	ErbB-2	ErbB-2	ErbB-2
ErbB-3	ErbB-3	ErbB-3	ErbB-3	ErbB-3	ErbB-3	ErbB-3
ErbB-4	ErbB-4	ErbB-4	ErbB-4	ErbB-4	ErbB-4	ErbB-4

Figure 2

NSDSECPLSHDGYCLHDGVCMYIEA---LDKYACNCVVGYIGERCQYRDLKWWELR VVSHFNDCPDSHTQFCFH-GTCRFLVQ---EDKPACVCHSGYVGARCEHADLLAVV VSITKCSSDMNGYCLH-GQCIYLVD---MSQNYCRCEVGYTGVRCEHFFLTVHQ KKRDPCLRKYKDFCIH-GECKYVKE---LRAPSCICHPGYHGERCHGLSLPVEN GHFSRCPKQYKHYCIK-GRCRFWVA---EQTPSCVCDEGYIGARCERVDLFYLR KFSHPCLEDHNSYCIN-GACAFHHE---LKQAICRCFTGYTGQRCEHLTLTSYA GHARKCNETAKSYCVNGGVCYYIE---GINQLSCKCPVGYTGDRCQQFAMVNF EHFKPCRDKDLAYCLNDGECFVIE-TLTGSHKHCRCKEGYQGVRCDQFLPKTD DHEQPCGPRHRSFCINGGICYVIP---TIPSPFCRCIENYIGARCEEVFLPSS SHIVKCAEKEKTFCVNGGECFMVKDLSNPSRYLCKCPNEFTGDRCQNYVMASF GHARKCNETAKSYCVNGGVCYYIE---GINQLSCKCPNGFFGQRCLEKLPLRL SHLVKCAEKEKTFCVNGGÈCFMVKDLSNPSRYLCKCQPGFTGARCTENVPMKV KKKNPCNAEFONFCIH-GECKYIEH---LEAVTCKCOOEYFGERCGEK Betacellulin Amphiregulin Epiregulin HB-EGF Epigen  $NRG1\alpha$  $NRG1\beta$ NRG2B TGF-0 NRG2a NRG3 EGF

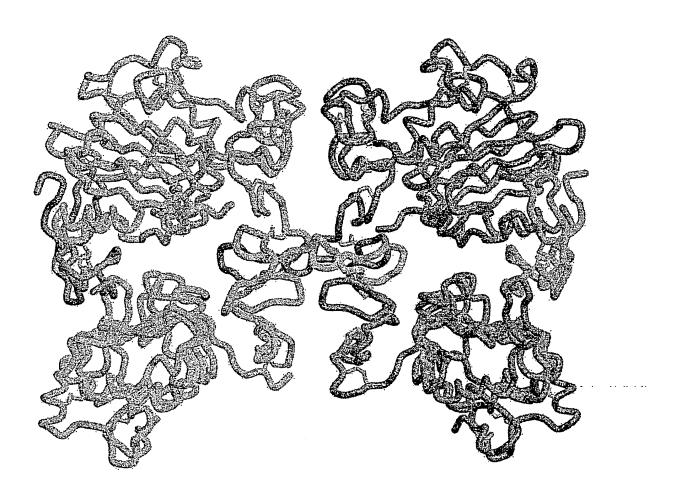


Figure 3

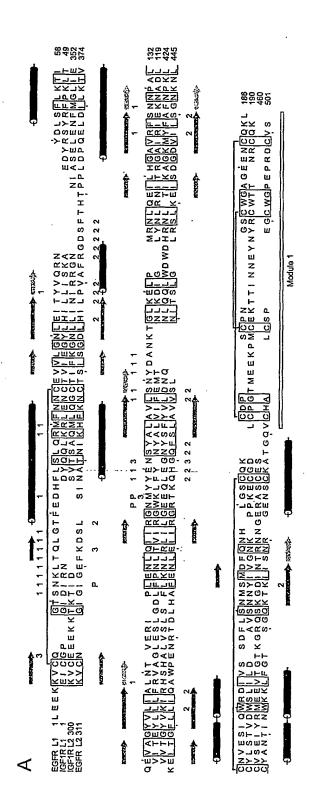


Figure 4A

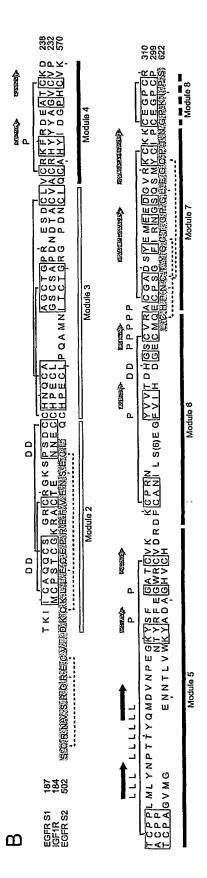


Figure 4B

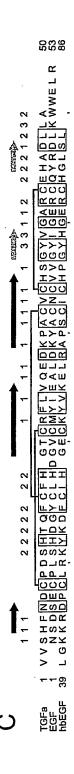


Figure 4C

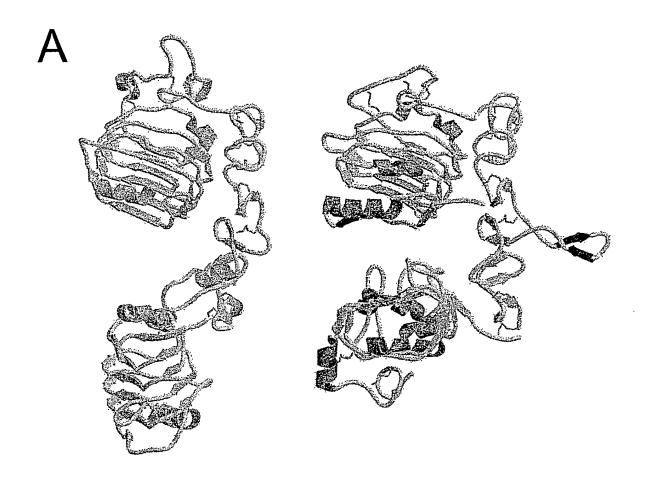


Figure 5

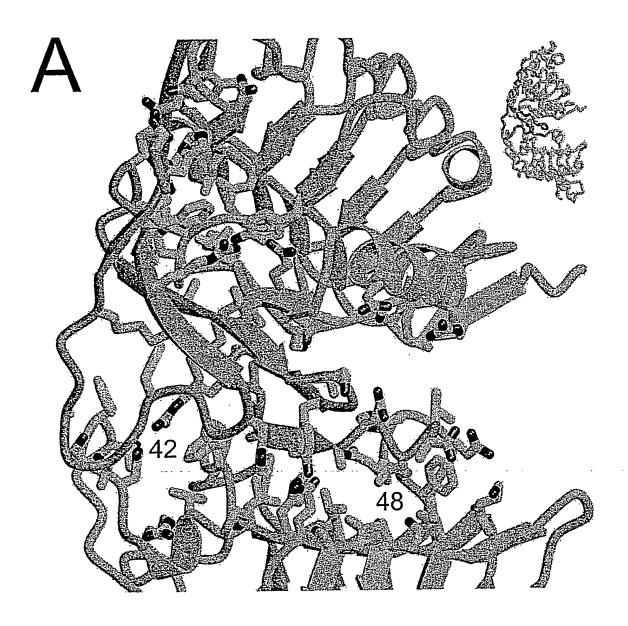


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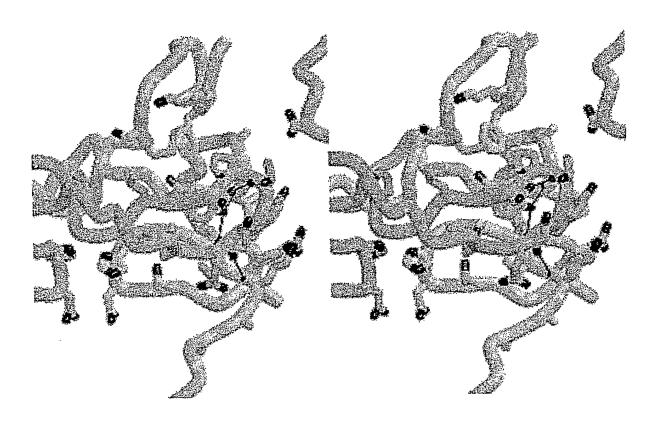


Figure 7

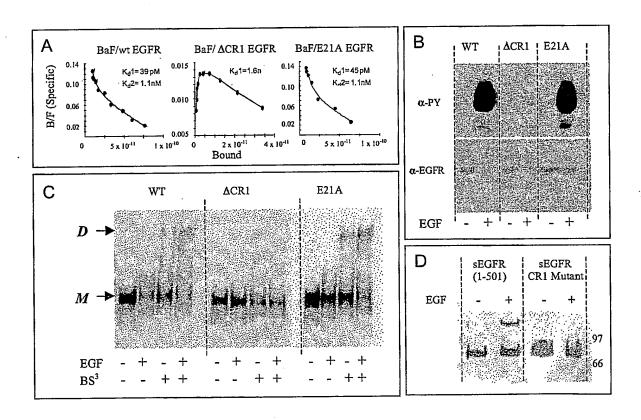


Figure 8

## SEQUENCE LISTING

- <110> Commonwealth Scientific and Industrial Research Organisation Ludwig Institute for Cancer Research Walter and Eliza Hall Institute of Medical Research Biomolecular Research Institute Limited
- <120> Methods of screening based on the EGF receptor crsytal structure
- <130> 500853
- <150> AU PR 6827
- <151> 2001-08-03
- <150> AU PR 6828
- <151> 2001-08-03
- <150> USSN 60/336,560
- <151> 2001-11-01
- <150> USSN 60/335,393
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- <150> USSN 60/388,171
- <151> 2002-06-11
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Met Arg Asn Leu Gln Glu Ile Leu His Gly Ala Val Arg Phe Ser Asn 115 120 125

Asn Pro Ala Leu Cys Asn Val Glu Ser Ile Gln Trp Arg Asp Ile Val 130 135 140

Ser Ser Asp Phe Leu Ser Asn Met Ser Met Asp Phe Gln Asn His Leu 145 150 155 160

Gly Ser Cys Gln Lys Cys Asp Pro Ser Cys Pro Asn Gly Ser Cys Trp 165 170 175

Gly Ala Gly Glu Glu Asn Cys Gln Lys Leu Thr Lys Ile Ile Cys Ala 180 185 190

Gln Gln Cys Ser Gly Arg Cys Arg Gly Lys Ser Pro Ser Asp Cys Cys 195 200 205

His Asn Gln Cys Ala Ala Gly Cys Thr Gly Pro Arg Glu Ser Asp Cys 210 215 220

Leu Val Cys Arg Lys Phe Arg Asp Glu Ala Thr Cys Lys Asp Thr Cys 225 230 235 240

Pro Pro Leu Met Leu Tyr Asn Pro Thr Thr Tyr Gln Met Asp Val Asn 245 250 255

Pro Glu Gly Lys Tyr Ser Phe Gly Ala Thr Cys Val Lys Lys Cys Pro 260 265 270

Arg Asn Tyr Val Val Thr Asp His Gly Ser Cys Val Arg Ala Cys Gly 275 280 285

Ala Asp Ser Tyr Glu Met Glu Glu Asp Gly Val Arg Lys Cys Lys Lys 290 295 300 .

Cys Glu Gly Pro Cys Arg Lys Val Cys Asn Gly Ile Gly Ile Gly Glu 305 310 315

Phe Lys Asp Ser Leu Ser Ile Asn Ala Thr Asn Ile Lys His Phe Lys 325 . 330 . 335

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Arg Gly Asp Ser Phe Thr His Thr Pro Pro Leu Asp Pro Gln Glu Leu 355 360 365

Asp Ile Leu Lys Thr Val Lys Glu Ile Thr Gly Phe Leu Leu Ile Gln 370 375 380

Ala Trp Pro Glu Asn Arg Thr Asp Leu His Ala Phe Glu Asn Leu Glu 385 390 395 400

Ile Ile Arg Gly Arg Thr Lys Gln His Gly Gln Phe Ser Leu Ala Val 405 410 415

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Asn Thr Ile Asn Trp Lys Lys Leu Phe Gly Thr Ser Gly Gln Lys Thr 450 455 460

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O 03/014159 PCT/AU02/01042

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Ile Ala His Asn Gln Val Arg Gln Val Pro Leu Gln Arg Leu Arg Ile 65 70 75 80

Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr Ala Leu Ala Val Leu 85 90 95

Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro Val Thr Gly Ala Ser 100 105 110

Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser Leu Thr Glu Ile Leu 115 120 125

Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln Leu Cys Tyr Gln Asp 130 135 140

Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu Ala Leu 145 150 155 160

Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro Cys Ser Pro 165 170 175

Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser Ser Glu Asp Cys Gln 180 185 190

Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys Ala Arg Cys Lys Gly
195 200 205

Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys Ala Ala Gly Cys Thr 210 215 220

Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu His Phe Asn His Ser 225 230 235 240

Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val Thr Tyr Asn Thr Asp 245 250 255

Thr Phe Glu Ser Met Pro Asn Pro Glu Gly Arg Tyr Thr Phe Gly Ala 260 265 270

Ser Cys Val Thr Ala Cys Pro Tyr Asn Tyr Leu Ser Thr Asp Val Gly

275 280 285

Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln Glu Val Thr Ala Glu 290 295 300

Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys Pro Cys Ala Arg Val 305 310 315 320

Cys Tyr Gly Leu Gly Met Glu His Leu Arg Glu Val Arg Ala Val Thr 325 330 335

Ser Ala Asn Ile Gln Glu Phe Ala Gly Cys Lys Lys Ile Phe Gly Ser 340 345 350

Leu Ala Phe Leu Pro Glu Ser Phe Asp Gly Asp Pro Ala Ser Asn Thr 355 360 365

Ala Pro Leu Gln Pro Glu Gln Leu Gln Val Phe Glu Thr Leu Glu Glu 370 375 380

Ile Thr Gly Tyr Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro Asp 385 390 395 400

Leu Ser Val Phe Gln Asn Leu Gln Val Ile Arg Gly Arg Ile Leu His
405 410 415

Asn Gly Ala Tyr Ser Leu Thr Leu Gln Gly Leu Gly Ile Ser Trp Leu 420 425 430

Gly Leu Arg Ser Leu Arg Glu Leu Gly Ser Gly Leu Ala Leu Ile His 435 440 445

His Asn Thr His Leu Cys Phe Val His Thr Val Pro Trp Asp Gln Leu 450 455 460

Phe Arg Asn Pro His Gln Ala Leu Leu His Thr Ala Asn Arg Pro Glu 470 475 480

Asp Glu Cys Val Gly Glu Gly Leu Ala Cys His Gln Leu Cys Ala Arg
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Gly His Cys Trp Gly Pro Gly Pro Thr Gln Cys Val Asn 500 505

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Leu Tyr Glu Arg Cys Glu Val Val Met Gly Asn Leu Glu Ile Val Leu 35 40 45

Thr Gly His Asn Ala Asp Leu Ser Phe Leu Gln Trp Ile Arg Glu Val 50 55 60

Thr Gly Tyr Val Leu Val Ala Met Asn Glu Phe Ser Thr Leu Pro Leu 65 70 75 80

Pro Asn Leu Arg Val Val Arg Gly Thr Gln Val Tyr Asp Gly Lys Phe 85 90 95

Ala Ile Phe Val Met Leu Asn Tyr Asn Thr Asn Ser Ser His Ala Leu 100 105 110

Arg Gln Leu Arg Leu Thr Gln Leu Thr Glu Ile Leu Ser Gly Gly Val 115 120 125

Tyr Ile Glu Lys Asn Asp Lys Leu Cys His Met Asp Thr Ile Asp Trp 130 135 140

Arg Asp Ile Val Arg Asp Arg Asp Ala Glu Ile Val Val Lys Asp Asn 145 150 155 160

Gly Arg Ser Cys Pro Pro Cys His Glu Val Cys Lys Gly Arg Cys Trp 165 170 175

Gly Pro Gly Ser Glu Asp Cys Gln Thr Leu Thr Lys Thr Ile Cys Ala 180 185 190

Pro Gln Cys Asn Gly His Cys Phe Gly Pro Asn Pro Asn Gln Cys Cys 195 200 205

His Asp Glu Cys Ala Gly Gly Cys Ser Gly Pro Gln Asp Thr Asp Cys 210 215 220

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Phe Ala Cys Arg His Phe Asn Asp Ser Gly Ala Cys Val Pro Arg Cys 225 230 235 240

Pro Gln Pro Leu Val Tyr Asn Lys Leu Thr Phe Gln Leu Glu Pro Asn 245 250 255

Pro His Thr Lys Tyr Gln Tyr Gly Gly Val Cys Val Ala Ser Cys Pro 260 265 270

His Asn Phe Val Val Asp Gln Thr Ser Cys Val Arg Ala Cys Pro Pro 275 280 285

Asp Lys Met Glu Val Asp Lys Asn Gly Leu Lys Met Cys Glu Pro Cys 290 295 300

Gly Gly Leu Cys Pro Lys Ala Cys Glu Gly Thr Gly Ser Gly Ser Arg 305 310 315

Phe Gln Thr Val Asp Ser Ser Asn Ile Asp Gly Phe Val Asn Cys Thr 325 330 335

Lys Ile Leu Gly Asn Leu Asp Phe Leu Ile Thr Gly Leu Asn Gly Asp 340 345 350

Pro Trp His Lys Ile Pro Ala Leu Asp Pro Glu Lys Leu Asn Val Phe 355 360 365

Arg Thr Val Arg Glu Ile Thr Gly Tyr Leu Asn Ile Gln Ser Trp Pro 370 375 380

Pro His Met His Asn Phe Ser Val Phe Ser Asn Leu Thr Thr Ile Gly 385 390 395

Gly Arg Ser Leu Tyr Asn Arg Gly Phe Ser Leu Leu Ile Met Lys Asn 405 410 415

Leu Asn Val Thr Ser Leu Gly Phe Arg Ser Leu Lys Glu Ile Ser Ala 420 425 430

Gly Arg Ile Tyr Ile Ser Ala Asn Arg Gln Leu Cys Tyr His His Ser 435 440 445

Leu Asn Trp Thr Lys Val Leu Arg Gly Pro Thr Glu Glu Arg Leu Asp 450 455 460

Ile Lys His Asn Arg Pro Arg Arg Asp Cys Val Ala Glu Gly Lys Val

475 480 470 465

Cys Asp Pro Leu Cys Ser Ser Gly Gly Cys Trp Gly Pro Gly Pro Gly 490 485

Gln Cys Leu Ser

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Tyr Glu Asn Cys Glu Val Val Met Gly Asn Leu Glu Ile Thr Ser Ile

Glu His Asn Arg Asp Leu Ser Phe Leu Arg Ser Val Arg Glu Val Thr

Gly Tyr Val Leu Val Ala Leu Asn Gln Phe Arg Tyr Leu Pro Leu Glu 70

Asn Leu Arg Ile Ile Arg Gly Thr Lys Leu Tyr Glu Asp Arg Tyr Ala 85 90

Leu Ala Ile Phe Leu Asn Tyr Arg Lys Asp Gly Asn Phe Gly Leu Gln 100

Glu Leu Gly Leu Lys Asn Leu Thr Glu Ile Leu Asn Gly Gly Val Tyr 115 120

Val Asp Gln Asn Lys Phe Leu Cys Tyr Ala Asp Thr Ile His Trp Gln 135 130

Asp Ile Val Arg Asn Pro Trp Pro Ser Asn Leu Thr Leu Val Ser Thr 150

Asn Gly Ser Ser Gly Cys Gly Arg Cys His Lys Ser Cys Thr Gly Arg 170 165

Cys Trp Gly Pro Thr Glu Asn His Cys Gln Thr Leu Thr Arg Thr Val

Cys Ala Glu Gln Cys Asp Gly Arg Cys Tyr Gly Pro Tyr Val Ser Asp 195 200 205

Cys Cys His Arg Glu Cys Ala Gly Gly Cys Ser Gly Pro Lys Asp Thr 210 215 220

Asp Cys Phe Ala Cys Met Asn Phe Asn Asp Ser Gly Ala Cys Val Thr 225 230 235 240

Gln Cys Pro Gln Thr Phe Val Tyr Asn Pro Thr Thr Phe Gln Leu Glu 245 250 255

His Asn Phe Asn Ala Lys Tyr Thr Tyr Gly Ala Phe Cys Val Lys Lys 260 265 270

Cys Pro His Asn Phe Val Val Asp Ser Ser Ser Cys Val Arg Ala Cys 275 280 285

Pro Ser Ser Lys Met Glu Val Glu Glu Asn Gly Ile Lys Met Cys Lys 290 295 300

Pro Cys Thr Asp Ile Cys Pro Lys Ala Cys Asp Gly Ile Gly Thr Gly 305 310 315 320

Ser Leu Met Ser Ala Gln Thr Val Asp Ser Ser Asn Ile Asp Lys Phe 325 330 335

Ile Asn Cys Thr Lys Ile Asn Gly Asn Leu Ile Phe Leu Val Thr Gly 340 345 350

Ile His Gly Asp Pro Tyr Asn Ala Ile Glu Ala Ile Asp Pro Glu Lys 355 360 365

Leu Asn Val Phe Arg Thr Val Arg Glu Ile Thr Gly Phe Leu Asn Ile 370 375 380

Gln Ser Trp Pro Pro Asn Met Thr Asp Phe Ser Val Phe Ser Asn Leu 385 390 395 400

Val Thr Ile Gly Gly Arg Val Leu Tyr Ser Gly Leu Ser Leu Leu Ile 405 410 415

Leu Lys Gln Gln Gly Ile Thr Ser Leu Gln Phe Gln Ser Leu Lys Glu 420 425 430

Ile Ser Ala Gly Asn Ile Tyr Ile Thr Asp Asn Ser Asn Leu Cys Tyr 435 440 445

Tyr His Thr Ile Asn Trp Thr Thr Leu Phe Ser Thr Ile Asn Gln Arg 450 455 460

Ile Val Ile Arg Asp Asn Arg Lys Ala Glu Asn Cys Thr Ala Glu Gly 465 470 475 480

Met Val Cys Asn His Leu Cys Ser Ser Asp Gly Cys Trp Gly Pro Gly 485 490 495

Pro Asp Gln Cys Leu Ser 500

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Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn 20 25 30

Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys 35 40 45

Trp Trp Glu Leu Arg 50

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<211> 52

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Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe Cys 1 5 10 15

Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala Cys 20 25 30

Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp Leu 40

Leu Ala Val Val 50

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Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr Cys Lys Cys 20

Gln Gln Glu Tyr Phe Gly Glu Arg Cys Gly Glu Lys 40

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Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser Cys Ile Cys 30 20

His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser Leu Pro Val

Glu Asn 50

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Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys
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Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp Leu Phe Tyr 35 40 45

Leu Arg 50

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Gly Gln Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr Cys Arg Cys 20 25 30

Glu Val Gly Tyr Thr Gly Val Arg Cys Glu His Phe Phe Leu Thr Val 35 40  $\cdot$  45

His Gln 50

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Gly Ala Cys Ala Phe His His Glu Leu Lys Gln Ala Ile Cys Arg Cys 20 25 30

Phe Thr Gly Tyr Thr Gly Gln Arg Cys Glu His Leu Thr Leu Thr Ser 35 40 45

Tyr Ala 50

<210> 12

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Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn 1 5 10 15

Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr 20 25 30

Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Asn

Val Pro Met Lys Val

<210> 13

<211> 53

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Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn 1 5 10 15

Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr 20 25 30

Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr 35 40 45

Val Met Ala Ser Phe 50

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Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys 20 25 30

Cys Pro Asn Gly Phe Phe Gly Gln Arg Cys Leu Glu Lys Leu Pro Leu 35 40 45

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Cys Pro Val Gly Tyr Thr Gly Asp Arg Cys Gln Gln Phe Ala Met Val
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Asn Phe
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Cys Arg Cys Lys Glu Gly Tyr Gln Gly Val Arg Cys Asp Gln Phe Leu
Pro Lys Thr Asp
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Cys Ile Glu Asn Tyr Thr Gly Ala Arg Cys Glu Glu Val Phe Leu Pro 35 40 45

Ser Ser 50

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Asn Cys Glu Val Val Leu Gly Asn Leu Glu Ile Thr Tyr Val Gln Arg 35 40 45

Asn Tyr Asp Leu Ser Phe Leu Lys Thr Ile Gln Glu Val Ala Gly Tyr 50 55 60

Val Leu Ile Ala Leu Asn Thr Val Glu Arg Ile Pro Leu Glu Asn Leu 65 70 75 80

Gln Ile Ile Arg Gly Asn Met Tyr Tyr Glu Asn Ser Tyr Ala Leu Ala 85 90 95

Val Leu Ser Asn Tyr Asp Ala Asn Lys Thr Gly Leu Lys Glu Leu Pro 100 105 110

Met Arg Asn Leu Gln Glu Ile Leu His Gly Ala Val Arg Phe Ser Asn 115 120 125

Asn Pro Ala Leu Cys Asn Val Glu Ser Ile Gln Trp Arg Asp Ile Val 130 135 140

Ser Ser Asp Phe Leu Ser Asn Met Ser Met Asp Phe Gln Asn His Leu 145 150 155 160

Gly Ser Cys Gln Lys Cys Asp Pro Ser Cys Pro Asn Gly Ser Cys Trp 165 170 175

Gly Ala Gly Glu Glu Asn Cys Gln Lys Leu 180 185

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Lys Arg Leu Glu Asn Cys Thr Val Ile Glu Gly Tyr Leu His Ile Leu 20 25 30

Leu Ile Ser Lys Ala Glu Asp Tyr Arg Ser Tyr Arg Phe Pro Lys Leu 35 40 45

Thr Val Ile Thr Glu Tyr Leu Leu Leu Phe Arg Val Ala Gly Leu Glu 50 55 60

Ser Leu Gly Asp Leu Phe Pro Asn Leu Thr Val Ile Arg Gly Trp Lys 70 75 80

Leu Phe Tyr Asn Tyr Ala Leu Val Ile Phe Glu Met Thr Asn Leu Lys 85 90 95

Asp Ile Gly Leu Tyr Asn Leu Arg Asn Ile Thr Arg Gly Ala Ile Arg 100 105 110

Ile Glu Lys Asn Ala Asp Leu Cys Tyr Leu Ser Thr Val Asp Trp Ser 115 120 125

Leu Ile Leu Asp Ala Val Ser Asn Asn Tyr Ile Val Gly Asn Lys Pro 130 135 140

Pro Lys Glu Cys Gly Asp Leu Cys Pro Gly Thr Met Glu Glu Lys Pro 145 150 155 160

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Thr Thr Asn Arg Cys Gln Lys 180

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Ile Asn Ile Arg Arg Gly Asn Asn Ile Ala Ser Glu Leu Glu Asn Phe

Met Gly Leu Ile Glu Val Val Thr Gly Tyr Val Lys Ile Arg His Ser 55

His Ala Leu Val Ser Leu Ser Phe Leu Lys Asn Leu Arg Leu Ile Leu 75 70

Gly Glu Glu Gln Leu Glu Gly Asn Tyr Ser Phe Tyr Val Leu Asp Asn

Gln Asn Leu Gln Gln Leu Trp Asp Trp Asp His Arg Asn Leu Thr Ile 100 105 110

Lys Ala Gly Lys Met Tyr Phe Ala Phe Asn Pro Lys Leu Cys Val Ser 120 115

Glu Ile Tyr Arg Met Glu Glu Val Thr Gly Thr Lys Gly Arg Gln Ser 135

Lys Gly Asp Ile Asn Thr Arg Asn Asn Gly Glu Arg Ala Ser Cys Glu 155 150

Ser

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15

10

18/21

5

Ile Asn Ala Thr Asn Ile Lys His Phe Lys Asn Cys Thr Ser Ile Ser 20 25 30

Gly Asp Leu His Ile Leu Pro Val Ala Phe Arg Gly Asp Ser Phe Thr 35 40 45

His Thr Pro Pro Leu Asp Pro Gln Glu Leu Asp Ile Leu Lys Thr Val 50 55 60

Lys Glu Ile Thr Gly Phe Leu Leu Ile Gln Ala Trp Pro Glu Asn Arg 65 70 75 80

Thr Asp Leu His Ala Phe Glu Asn Leu Glu Ile Ile Arg Gly Arg Thr 85 90 95

Lys Gln His Gly Gln Phe Ser Leu Ala Val Val Ser Leu Asn Ile Thr
100 105 110

Ser Leu Gly Leu Arg Ser Leu Lys Glu Ile Ser Asp Gly Asp Val Ile 115 120 125

Ile Ser Gly Asn Lys Asn Leu Cys Tyr Ala Asn Thr Ile Asn Trp Lys
130 135 140

Lys Leu Phe Gly Thr Ser Gly Gln Lys Thr Lys Ile Ile Ser Asn Arg 145 150 155 160

Gly Glu Asn Ser Cys Lys Ala Thr Gly Gln Val Cys His Ala Leu Cys 165 170 175

Ser Pro Glu Gly Cys Trp Gly Pro Glu Pro Arg Asp Cys Val Ser 180 185 190

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Pro Arg Glu Ser Asp Cys Leu Val Cys Arg Lys Phe Arg Asp Glu Ala 35 40 45

Thr Cys Lys Asp Thr Cys Pro Pro Leu Met Leu Tyr Asn Pro Thr Thr 50 55 60

Tyr Gln Met Asp Val Asn Pro Glu Gly Lys Tyr Ser Phe Gly Ala Thr 65 70 75 80

Cys Val Lys Lys Cys Pro Arg Asn Tyr Val Val Thr Asp His Gly Ser 85 90 95

Cys Val Arg Ala Cys Gly Ala Asp Ser Tyr Glu Met Glu Glu Asp Gly
100 105 110

Val Arg Lys Cys Lys Cys Glu Gly Pro Cys Arg 115 120

<210> 23

<211> 116

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<213> Homo sapiens

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Cys Cys His Pro Glu Cys Leu Gly Ser Cys Ser Ala Pro Asp Asn Asp 20 25 30

Thr Ala Cys Val Ala Cys Arg His Tyr Tyr Tyr Ala Gly Val Cys Val
35 40 45

Pro Ala Cys Pro Pro Asn Thr Tyr Arg Phe Glu Gly Trp Arg Cys Val 50 55 60

Asp Arg Asp Phe Cys Ala Asn Ile Leu Ser Ala Glu Ser Ser Asp Ser 65 70 75 80

Glu Gly Phe Val Ile His Asp Gly Glu Cys Met Gln Glu Cys Pro Ser 85 90 95

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Gly Pro Cys Pro

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115

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<212> PRT

<213> Homo sapiens

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Ser Cys Arg Asn Val Ser Arg Gly Arg Glu Cys Val Asp Lys Cys Lys 1 5 10 15

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Gln Cys His Pro Glu Cys Leu Pro Gln Ala Met Asn Ile Thr Cys Thr 35 40 45

Gly Arg Gly Pro Asp Asn Cys Ile Gln Cys Ala His Tyr Ile Asp Gly 50 55 60

Pro His Cys Val Lys Thr Cys Pro Ala Gly Val Met Gly Glu Asn Asn 65 70 75 80

Thr Leu Val Trp Lys Tyr Ala Asp Ala Gly His Val Cys His Leu Cys 85 90 95

His Pro Asn Cys Thr Tyr Gly Cys Thr Gly Pro Gly Leu Glu Gly Cys
100 105 110

Pro Thr Asn Gly Pro Lys Ile Pro Ser 115 120

<210> 25

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<213> Homo sapiens

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Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe Cys
1 5 10 15

Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala Cys 20 25 30

Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp Leu 35 40 45

Leu Ala 50

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Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Lys 35 40 45

Trp Trp Glu Leu Arg 50

<210> 27

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<212> PRT

<213> Homo sapiens

<400> 27

Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe Cys 1 5 10 15

Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser Cys 20 25 30

Ile Cys His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser Leu 35 40 45

## APPENDIX I

RYST1 REMARK	51.5 Back-		198.7 ack	10	78	.900 90.00	102.03	90.00 P	21	
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ATOM	2	C	ALA		2	-6.041	44.455	25.567	1.00 60.47	AAAA
ATOM	3	0	ALA		2	-7.074	44.097	26.139	1.00 61.40	AAAA
ATOM	4	N	ALA	A	2	-5.771	46.741	24.537	1.00 58.41	AAAA
MOTA	5	CA	ALA	Α	2	-5.491	45.878	25.727	1.00 59.64	AAAA
ATOM	6	N	GLU	Α	3	-5.329	43.654	24.781	1.00 60.74	AAAA
ATOM	7	CA	GLU	Α	3	-5.676	42.260	24.509	1.00 59.78	AAAA
ATOM	8	CB	GLU	Α	3	-6.908	42.174	23.603	1.00 59.83	AAAA
ATOM	9	CG	GLU	Α	3	-7.359	40.754	23.297	0.01 60.15	AAAA
MOTA	10	CD	GLU	Α	3	-8.566	40.711	22.381	0.01 60.22	AAAA
MOTA	11		GLU	Α	3	-8.470	41.219	21.244	0.01 60.23	AAAA
MOTA	12	OE2			3	-9.612	40.170	22.799	0.01 60.24	AAAA
MOTA	13	С	GLU		3	-4.460	41.704	23.786	1.00 59.00	AAAA
MOTA	14	0	GLU		3	-4.512	41.401	22.598	1.00 59.20	AAAA
MOTA	15	N	LYS		4	-3.363	41.594	24.526	1.00 58.54	AAAA
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ATOM	17	CB	LYS		4	-1.317	42.322	23.462	1.00 57.36	AAAA
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ATOM	19	CD	LYS		4	0.764	43.260	22.433	1.00 59.63	AAAA
ATOM	20	CE	LYS		4	0.260	43.436	21.012	1.00 59.41	AAAA
ATOM	21	NZ	LYS		4	0.959	44.554	20.333	1.00 58.90	AAAA AAAA
ATOM	22	С	LYS		4	-1.307	40.406	25.127	1.00 56.93 1.00 56.97	AAAA
ATOM	23	0	LYS		4	-1.211 -0.763	40.936	26.232	1.00 55.84	AAAA
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ATOM	25	CA	LYS		5	-0.011 0.492	38.443 37.119	25.270	1.00 55.60	AAAA
MOTA	26	CB	LYS		5 5	-0.574	36.217	24.678	1.00 56.14	AAAA
MOTA	27 28	CG	LYS LYS		5	-1.618	35.806	25.705	1.00 57.47	AAAA
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ATOM	30	NZ	LYS		5	-2.090	34.422	27.726	1.00 59.38	AAAA
ATOM	31	C	LYS		5	1.195	39.187	26.437	1.00 55.15	AAAA
ATOM	32	o	LYS		5	2.007	39.739	25.695	1.00 56.13	AAAA
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MOTA	45	SG	CYS		7	7.007	37.748	29.053	1.00 55.51	AAAA
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MOTA	47	CA	GLN		8	6.912	39.342	33.961	1.00 47.97	AAAA
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ATOM	49	CG	GLN		8	5.813	37.838	35.762 35.614	1.00 59.06	AAAA
ATOM	50	CD	GLN GLN		8	4.563 4.502	38.693 39.828	36.103	1.00 61.39	AAAA
ATOM	51 52		GLN		8 8	3.553	38.147	34.935	1.00 60.49	AAAA
ATOM	53	C	GLN		8	8.284	39.604	33.378	1.00 44.54	AAAA
ATOM ATOM	54	0	GLN		8	8.419	40.312	32.398	1.00 43.87	AAAA
ATOM	55	N	GLY		9	9.308	39.024	33.980	1.00 42.16	AAAA
ATOM	56	CA	GLY		9	10.644	39.240	33.466	1.00 39.11	AAAA
ATOM	57	C	GLY		9	11.642	38.293	34.079	1.00 35.76	AAAA
ATOM	58	0	GLY		9	11.282	37.218	34.527	1.00 35.38	AAAA
ATOM	59	N	THR		10	12.900	38.700	34.102	1.00 33.10	AAAA
ATOM	60	CA	THR		10	13.949	37.873	34.665	1.00 31.42	AAAA
MOTA	61	СВ	THR		10	14.401	36.809	33.662	1.00 30.13	AAAA
ATOM	62		THR		10	13.388	35.812	33.532	1.00 27.61	AAAA
ATOM	63	CG2			10	15.668	36.161	34.113	1.00 31.72	AAAA
ATOM	64	C	THR		10	15.128	38.752	35.028	1.00 31.82	· AAAA
MOTA	65	ō	THR		10	15.921	39.110	34.177	1.00 32.51	AAAA
MOTA	66	N	SER		11	15.238	39.103	36.300	1.00 31.41	AAAA
ATOM	67	CA	SER		11	16.323	39.949	36.763	1.00 30.43	AAAA
ATOM	68	CB	SER	A	11	15.814	40.805	37.925	1.00 30.55	AAAA
ATOM	69	OG	SER		11	16.526	42.021	38.035	1.00 32.82	AAAA
ATOM	70	C	SER	Α	11	17.537	39.102	37.189	1.00 29.54	AAAA

ATOM	71	0	SER	Α	11	18.512	39.613	37.722	1.00 29.25	AAAA
ATOM	72	N	ASN	Α	12	17.470	37.803	36.932	1.00 28.62	AAAA
ATOM	73	CA	ASN	Α	12	18.547	36.875	37.278	1.00 28.35	AAAA
MOTA	74	CB	ASN	Α	12	18.214	35.457	36.765	1.00 29.25	AAAA
ATOM	75	CG	ASN	A	12	17.133	34.730	37.589	1.00 28.99	AAAA
ATOM	76	OD1	ASN	Α	12	16.591	33.726	37.131	1.00 27.16	AAAA
ATOM	77	ND2	ASN	Α	12	16.840	35.213	38.795	1.00 27.67	AAAA
ATOM	78	С	ASN	А	12	19.922	37.266	36.713	1.00 27.48	AAAA
ATOM	79	0	ASN	А	12	20.926	36.674	37.089	1.00 27.50	AAAA
MOTA	80	N	LYS	А	13	19.966	38.241	35.807	1.00 27.44	AAAA
ATOM	81	CA	LYS	А	13	21.218	38.670	35.161	1.00 26.93	AAAA
ATOM	82	CB	LYS	Α	13	22.047	39.562	36.091	1.00 26.91	AAAA
· ATOM	83	CG	LYS	Α	13	21.659	41.035	36.099	1.00 26.67	AAAA
ATOM	84	CD	LYS	Α	13	22.535	41.830	37.053	0.01 26.20	AAAA
ATOM	85	CE	LYS	Α	13	22.125	43.293	37.090	0.01 25.99	AAAA
ATOM	86	ΝZ	LYS	A	13	22.217	43.926	35.746	0.01 26.11	AAAA
ATOM	87	С	LYS	А	13	22.105	37.522	34.656	1.00 28.09	AAAA
ATOM	88	0	LYS	Α	13	21.739	36.792	33.721	1.00 28.64	AAAA
ATOM	89	N	LEU	Α	14	23.274	37.357	35.274	1.00 27.62	AAAA
ATOM	90	CA	LEU	Α	14	24.209	36.320	34.846	1.00 26.42	AAAA
ATOM	91	CB	LEU	Α	14	25.618	36.907	34.733	1.00 25.41	AAAA
ATOM	92	CG	LEU	A	14	25.915	37.843	33.568	1.00 25.14	AAAA
ATOM	93	CD1	LEU	Α	14	27.348	38.304	33.623	1.00 26.46	AAAA
ATOM	94	CD2	LEU	Α	14	25.677	37.110	32.278	1.00 26.96	AAAA
ATOM	95	C	LEU	Α	14	24.256	35.063	35.713	1.00 26.50	AAAA
MOTA	96	0	LEU	A	14	25.029	34.151	35.434	1.00 27.83	AAAA
MOTA	97	N	THR	Α	15	23.448	35.012	36.764	1.00 24.32	AAAA
ATOM	98	CA	THR	А	15	23.426	33.838	37.633	1.00 22.53	AAAA
ATOM	99	CB	THR	Α	15	22.522	34.052	38.859	1.00 22.12	AAAA
ATOM	100	OG1			15	23.142	34.968	39.765	1.00 22.07	AAA <b>A</b>
MOTA	101	CG2	THR	А	15	22.248	32.744	39.551	1.00 18.60	AAAA
ATOM	102	С	THR	A	15	22.853	32.676	36.856	1.00 22.48	AAAA
ATOM	103	0	THR	Α	15	22.181	32.881	35.852	1.00 22.65	AAAA
ATOM	104	N	GLN	Α	16	23.120	31.461	37.325	1.00 22.82	AAAA
MOTA	105	CA	GLN	Α	16	22.597	30.266	36.688	1.00 24.49	AAAA
ATOM	106	CB	GLN	A	16	23.712	29.370	36.173	1.00 24.75	AAAA
ATOM	107	CG	GLN		16	23.172	28.162	35.437	1.00 28.55	AAAA
ATOM	108	CD	GLN		16	24.261	27.227	34.944	1.00 30.72	AAAA
ATOM	109		GLN		16	25.216	27.650	34.287	1.00 30.40	AAAA
ATOM	110		GLN		16	24.116	25.942	35.253	1.00 29.88	AAAA
MOTA	111	С	GLN		16	21.783	29.503	37.711	1.00 26.08	AAAA
ATOM	112	0	GLN		16	22.325	29.042	38.713	1.00 26.14	AAAA
ATOM	113	N	LEU		17	20.481	29.383	37.441	1.00 27.26	AAAA
ATOM	114	CA	LEU		17	19.520	28.696	38.306	1.00 25.85	AAAA
ATOM	115	CB	LEU		17	18.095	29.048	37.897	1.00 24.13	AAAA
ATOM	116	CG	LEU		17	17.748	30.462	37.457	1.00 21.42	AAAA
ATOM ATOM	117		LEU		17	16.330	30.445	36.961	1.00 18.67	AAAA
	118		LEU		17	17.924	31.441	38.589	1.00 20.21	AAAA
ATOM ATOM	119 120	C	LEU		17	19.666	27.192	38.214	1.00 27.12	AAAA
ATOM	121	O N	LEU GLY		17	18.939	26.549	37.474	1.00 27.57	AAAA
ATOM	122	CA	GLY		18 18	20.598 20.819	26.636	38.976	1.00 29.90	AAAA
ATOM	123	C	GLY		18	21.522	25.204 24.743	38.959 37.702	1.00 30.29 1.00 31.68	AAAA
ATOM	124	Ö	GLY		18	22.425	25.410	37.194	1.00 31.08	AAAA AAAA
ATOM	125	N	THR		19	21.083	23.410	37.197	1.00 31.99	AAAA
ATOM	126	CA	THR		19	21.639	22.968	35.997	1.00 32.33	AAAA
ATOM	127	CB	THR		19	21.363	21.447	36.043	1.00 32.87	AAAA
ATOM	128		THR		19	19.962	21.220	36.262	1.00 33.47	AAAA
ATOM	129		THR		19	22.158	20.800	37.169	1.00 32.74	AAAA
ATOM	130	C	THR		19	21.105	23.528	34.659	1.00 32.33	AAAA
ATOM	131	0	THR		19	20.057	24.184	34.624	1.00 32.10	AAAA
ATOM	132	N	PHE		20	21.825	23.254	33.565	1.00 30.46	AAAA
ATOM	133	CA	PHE		20	21.418	23.720	32.236	1.00 28.37	AAAA
ATOM	134	CB	PHE		20	22.319	23.153	31.146	1.00 24.21	AAAA
ATOM	135	CG	PHE		20	23.681	23.732	31.128	1.00 20.28	AAAA
ATOM	136		PHE		20	24.776	22.930	30.873	1.00 20.20	AAAA
ATOM	137		PHE		20	23.877	25.075	31.371	1.00 20.48	AAAA
ATOM	138		PHE		20	26.046	23.449	30.864	1.00 19.66	AAAA
ATOM	139		PHE		20	25.148	25.616	31.365	1.00 21.29	AAAA
ATOM	140	CZ	PHE		20	26.239	24.802	31.112	1.00 22.08	AAAA
ATOM	141	C	PHE		20	19.992	23.324	31.915	1.00 22.00	AAAA
ATOM	142	Ö	PHE		20	19.193	24.164	31.491	1.00 29.62	AAAA
ATOM	143	N	GLU		21	19.672	22.044	32.098	1.00 30.85	AAAA
ATOM	144	CA	GLU		21	18.319	21.587	31.813	1.00 33.50	AAAA
ATOM	145	СВ	GLU		21	18.175	20.083	32.012	1.00 34.68	AAAA
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ATOM	146	CG	GLU A	21	16.851	19.555	31.472	1.00 36.13	· AAAA
ATOM	147	CD	GLU A	21	16.576	18.123	31.871	1.00 38.47	AAAA
ATOM	148	OĖ1	GLU A	21	17.462	17.261	31.688	1.00 39.21	AAAA
ATOM	149	OE2	GLU A	21	15.460	17.856	32.369	1.00 40.67	AAAA
ATOM	150	С	GLU A	21	. 17.317	22.301	32.711	1.00 34.17	AAAA
ATOM	151	0	GLU A	21	16.226	22.664	32.271	1.00 33.71	AAAA
ATOM	152	N	ASP A	22	17.678	22.504	33.972	1.00 34.19	AAAA
ATOM	153	CA	ASP A	22	16.769	23.194	34.864	1.00 35.05	AAAA
ATOM	154	CB	ASP A	22	17.263	23.124	36.303	1.00 36.03	AAAA
ATOM	155	CG	ASP A	22	16.600	22.006	37.076	1.00 37.68	AAAA
ATOM	156		ASP A	22	15.386	21.797	36.851	1.00 37.16	AAAA
	157		ASP A	22	17.277	21.349	37.899	1.00 38.05	AAAA
ATOM							34.418	1.00 34.40	AAAA
ATOM	158	C	ASP A	22	16.635	24.630		1.00 34.49	AAAA
ATOM	159	0	ASP A	22	15.545	25.110	34.129		AAAA
ATOM	160	N	HIS A	23	17.763	25.313	34.360	1.00 34.16	
ATOM	161	CA	HIS A	23	17.785	26.691	33.921	1.00 33.28	AAAA
ATOM	162	CB	HIS A	23	19.217	27.040	33.507	1.00 31.13	AAAA
ATOM	163	CG	HIS A	23	19.479	28.506	33.351	1.00 28.13	AAAA
ATOM	164		HIS A	23	20.627	29.213	33.458	1.00 25.84	AAAA
ATOM	165		HIS A	23	18.511	29.404	32.962	1.00 25.93	AAAA
ATOM	166		HIS A	23	19.052	30.600	32.835	1.00 25.36	AAAA
MOTA	167	NE2	HIS A	23	20.335	30.510	33.129	1.00 24.68	AAAA
ATOM	168	С	HIS A	23	16.822	26.786	32.724	1.00 33.99	AAAA
ATOM	169	0	HIS A	23	15.841	27.533	32.761	1.00 33.75	AAAA
ATOM	170	N	PHE A	24	17.073	25.988	31.685	1.00 33.86	AAAA
ATOM	171	CA	PHE A	24	16.235	26.032	30.492	1.00 33.10	AAAA
ATOM	172	CB	PHE A	24	16.553	24.879	29.533	1.00 33.34	AAAA
ATOM	173	CG	PHE A	24 -	15.655	24.850	28.324	1.00 34.12	AAAA
ATOM	174	CD1	PHE A	24	15.921	25.651	27.223	1.00 34.03	AAAA
ATOM	175	CD2	PHE A	24	14.468	24.123	28.343	1.00 34.13	AAAA
MOTA	176		PHE A	24	15.013	25.738	26.170	1.00 33.43	AAAA
ATOM	177		PHE A	24	13.560	24.207	27.295	1.00 33.55	AAAA
ATOM	178	CZ	PHE A	24	13.831	25.017	26.211	1.00 33.44	AAAA
ATOM	179	C	PHE A	24	14.757	25.988	30.814	1.00 32.79	AAAA
ATOM	180	ō	PHE A	24	14.007	26.902	30.493	1.00 31.72	AAAA
ATOM	181	N	LEU A	25	14.338	24.899	31.437	1.00 33.00	AAAA
ATOM	182	CA	LEU A	25	12.942	24.733	31.788	1.00 32.52	AAAA
					12.800	23.672	32.883	1.00 32.32	AAAA
ATOM	183	CB CG	LEU A	25 25	12.793	22.204	32.445	1.00 31.77	AAAA
MOTA	184					21.963	31.329	1.00 32.03	AAAA
ATOM	185		LEU A	25	13.788				AAAA
ATOM	186		LEU A	25	13.106	21.335	33.641	1.00 33.06	
ATOM	187	С	LEU A	25	12.327	26.041	32.242	1.00 32.17	AAAA AAAA
ATOM	188	0	LEU A	25	11.276	26.437	31.742	1.00 31.88	
ATOM	189	И	SER A	26	12.997	26.720	33.169	1.00 32.02	AAAA AAAA
ATOM	190	CA	SER A	26	12.481	27.973	33.708	1.00 32.64	
ATOM	191	CB	SER A	26	13.391	28.498	34.823	1.00 34.43	AAAA
ATOM	192	OG	SER A	26	13.250	27.748	36.026	1.00 35.86	AAAA
ATOM	193	C	SER A	26	12.348	29.012	32.622	1.00 32.40	AAAA
ATOM	194	0	SER A	26	11.366	29.744	32.556	1.00 32.32	AAAA
MOTA	195	N	LEU A	27	13.349	29.064	31.758	1.00 32.84	AAAA
ATOM	196	CA	LEU A	27	13.345	30.010	30.658	1.00 31.91	AAAA
ATOM	197	CB	LEU A	27	14.531	29.750	29.738	1.00 29.65	AAAA
ATOM	198	CG	LEU A	27	14.682	30.703	28.561	1.00 29.38	AAAA
ATOM	199		LEU A	27	14.997	32.102	29.065	1.00 29.54	AAAA
ATOM	200	CD2	LEU A	27	15.781	30.192	27.654	1.00 29.92	AAAA
ATOM	201	С	LEU A	27	12.061	29.828	29.883	1.00 32.17	AAAA
ATOM	202	0	LEU A	27	11.334	30.780	29.625	1.00 34.88	AAAA
ATOM	203	N	GLN A	28	11.779	28.583	29.533	1.00 31.30	AAAA
ATOM	204	CA	GLN A	28	10.598	28.251	28.758	1.00 30.41	AAAA
ATOM	205	CB	GLN A	28	10.649	26.772	28.379	1.00 32.28	AAAA
ATOM	206	CG	GLN A	28	9.376	26.201	27.787	1.00 32.26	AAAA
ATOM	207	CD	GLN A	28-	9.613	24.846	27.159	1.00 32.58	AAAA
ATOM	208		GLN A	28	8.673	24.138	26.814	1.00 34.10	AAAA
ATOM	209		GLN A	28		24.484	26.997	1.00 30.49	AAAA
MOTA	210	C	GLN A	28	9.296	28.572	29.450	1.00 29.28	AAAA
MOTA	211	ō	GLN A	28	8.336	28.947	28.798	1.00 28.59	AAAA
ATOM	212	N	ARG A	29	9.262	28.431	30.768	1.00 28.98	AAAA
ATOM	213	CA	ARG A	29	8.044	28.699	31.506	1.00 30.05	AAAA
ATOM	213	CB	ARG A	29	8.197	28.312	32.971	1.00 30.05	AAAA
							33.231	1.00 34.32	AAAA
ATOM	215	CG	ARG A	29	8.287	26.821		1.00 34.32	. AAAA
	216	CD	ARG A	29	8.424	26.494	34.720	1.00 35.70	AAAA
ATOM	217	NE	ARG A	29.	7.250	26.872	35.505		AAAA
ATOM	218	CZ	ARG A	29	6.940	28.116	35.866	1.00 40.08	AAAA
MOTA	219		ARG A	29	7.714	29.131	35.511	1.00 41.01	AAAA
MOTA	220	NH2	ARG A	29	5.861	28.346	36.614	1.00 41.07	CUU.

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ATOM	221		ARG .		29	7.668	30.150 30.493	31.432 31.082	1.00 30.86 1.00 31.01	AAAA AAAA
ATOM ATOM	222 223		ARG MET		29 30	6.542 8.619	31.003	31.782	1.00 31.01	AAAA
ATOM	224		MET		30	8.398	32.442	31.779	1.00 33.97	AAAA
MOTA	225	CB	MET	A	30	9.663	33.160	32.260	1.00 33.21	AAAA
ATOM	226		MET		30	9.635	34.679	32.131	1.00 33.34	AAAA
ATOM	227		MET		30	8.403	35.531 35.530	33.153 34.726	1.00 34.09 1.00 34.78	AAAA AAAA
ATOM ATOM	228 229	CE C	MET MET		30 30	9.205 7.980	33.023	30.431	1.00 35.52	AAAA
ATOM	230	0	MET		30	7.077	33.861	30.370	1.00 36.18	AAAA
ATOM	231	N	PHE		31	8.612	32.562	29.352	1.00 36.10	AAAA
ATOM	232	CA	PHE		31	8.331	33.113	28.039	1.00 37.10	AAAA
ATOM	233	CB	PHE		31	9.646	33.344	27.298	1.00 36.24	AAAA AAAA
ATOM ATOM	234 235	CG CD1	PHE		31 31	10.540 11.577	34.323 33.888	27.980 28.792	1.00 35.90 1.00 35.99	AAAA
ATOM	236		PHE		31	10.293	35.688	27.879	1.00 34.97	AAAA
ATOM	237		PHE		31	12.357	34.799	29.502	1.00 36.86	AAAA
MOTA	238		PHE		31	11.063	36.608	28.583	1.00 36.16	AAAA
ATOM	239	CZ	PHE		31	12.099 7.3 <b>5</b> 5	36.164 32.420	29.400 27.122	1.00 36.40 1.00 38.64	AAAA AAAA
ATOM ATOM	240 241	С 0	PHE PHE		31 31	7.019	32.960	26.076	1.00 30.04	AAAA
ATOM	242	N	ASN		32	6.882	31.240	27.491	1.00 41.62	AAAA
ATOM	243	CA	ASN	A	32	5.941	30.540	26.621	1.00 44.06	AAAA
ATOM	244	CB	ASN		32	5.387	29.284	27.315	1.00 48.44	AAAA
MOTA	245	CG OD1	ASN ASN		32 32	5.147 5.708	28.123 28.098	26.344 25.243	1.00 53.57 1.00 53.73	AAAA AAAA
ATOM ATOM	246 247		ASN		32	4.342	27.146	26.766	1.00 58.79	AAAA
ATOM	248	C	ASN		32	4.801	31.484	26.248	1.00 43.01	AAAA
MOTA	249	0	ASN	Α	32	4.071	31.962	27.121	1.00 39.97	AAAA
MOTA	250	N	ASN		33	4.697	31.773	24.949	1.00 42.97	AAAA
ATOM	251	CA CB	ASN ASN		33 33	3.645 2.279	32.626 32.100	24.394 24.831	1.00 43.90 1.00 43.23	AAAA AAAA
ATOM ATOM	252 253	CG	ASN		33	2.170	30.611	24.685	1.00 44.30	AAAA
ATOM	254		ASN		33	2.226	30.080	23.575	1.00 45.37	AAAA
ATOM	255	ND2	ASN		33	2.030	29.916	25.809	1.00 42.75	AAAA
ATOM	256	C	ASN		33	3.710	34.117	24.719	1.00 44.61 1.00 44.75	AAAA AAAA
ATOM ATOM	257 258	O N	ASN CYS		33 34	2.750 4.813	34.850 34.582	24.460 25.289	1.00 45.15	AAAA
ATOM	259	CA	CYS		34	4.887	35.995	25.615	1.00 45.67	AAAA
ATOM	260	C	CYS	A	34	4.998	36.789	24.320	1.00 44.70	AAAA
MOTA	261	0	CYS		34	5.653	36.354	23.371	1.00 43.72	AAAA
ATOM	262 263	CB SG	CYS		34 34	6.089 6.018	36.295 37.952	26.518 27.285	1.00 48.13 1.00 53.06	AAAA AAAA
ATOM ATOM	264	N	GLU		35	4.329	37.941	24.291	1.00 43.27	AAAA
MOTA	265	CA	GLU	Α	35	4.334	38.847	23.149	1.00 41.48	AAAA
MOTA	266	CB	GLU		35	2.909	39.185	22.753	1.00 42.54	AAAA
ATOM	267	CG	GLU GLU		35	2.491 1.021	38.559 38.201	21.458 21.436	1.00 45.61 1.00 47.77	AAAA AAAA
ATOM ATOM	268 269	CD OE1	GLU.	_	35 35	0.181		21.763	1.00 48.10	AAAA
ATOM	270		GLU		35	0.712		21.084	1.00 48.93	AAAA
MOTA	271	С	GLU		35	5.036		23.613	1.00 40.12	AAAA
MOTA	272	0	GLU		35	5.942			1.00 38.44	AAAA AAAA
ATOM ATOM	273 274	N CA	VAL VAL		36 36	4.594 5.143		24.777 25.425	1.00 39.04 1.00 37.55	AAAA
ATOM	275	CB	VAL		36	4.040		25.846	1.00 37.92	AAAA
ATOM	276		VAL		36	4.639		26.050	1.00 37.09	AAAA
MOTA	277		YAL		36	2.924			1.00 38.33	AAAA
ATOM	278	C	VAL		36	5.810 5.203			1.00 35.89 1.00 36.05	AAAA AAAA
ATOM ATOM	279 280	О И	VAI. VAI		36 37	7.062				AAAA
ATOM	281	CA	VAL		37	<b>7</b> .779				AAAA
ATOM	282	CB	VAL	. A	37	9.148				AAAA
MOTA	283		L VAI			9.977				AAAA AAAA
MOTA	284		2 VAI			8.944 7.999				AAAA
ATOM ATOM	285 286	C	IAV IAV			8.938				AAAA
ATOM	287	N	LEU			7.102			1.00 30.71	AAAA
MOTA	288	CA				7.241	43.952	30.732	1.00 29.78	AAAA
ATOM	289					6.077				AAAA AAAA
ATOM	290					4.746 4.474				AAAA AAAA
ATOM ATOM	291 292		1 LEU 2 LEU			4.474 3.610				AAAA
ATOM	293		LEU			8.530				AAAA
ATOM	294	0	LEU	JΑ	. 38	8.700			_	AAAA
MOTA	295	N	GL'	ΥA	. 39	9.466	44.583	31.499	1.00 28.67	AAAA

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ATOM	296	CA	GLY A	39	10.688	44.251	32.200	1.00 31.77	AAAA
ATOM	297	Ç	GLY A	39	11.844	43.841	31.313	1.00 33.15	AAAA
MOTA	298	0	GLY A	39	12.163	44.542	30.358	1.00 33.73	AAAA
ATOM	299	N	ASN A	40	12.477	42.708	31.594	1.00 33.63	AAAA
ATOM	300	CA	ASN A	40	13.638	42.328	30.789	1.00 34.49	AAAA
ATOM	301	CB	ASN A	40	14.910	42.588	31.601	1.00 35.35	AAAA
ATOM	302	CG	ASN A	40	15.068	44.052	31.988	1.00 36.64	AAAA
MOTA	303		ASN A	40	14.142	44.845	31.863	1.00 39.26	AAAA
MOTA	304		ASN A	40	16.240	44.409	32.471	1.00 35.29	AAAA
ATOM	305	С	ASN A	40	13.675	40.910	30.221	1.00 34.66	AAAA
ATOM	306	Ō	ASN A	40	13.087	39.983	30.780	1.00 35.72	AAAA
ATOM	307	N	LEU A	41	14.379	40.759	29.098	1.00 33.18	AAAA
ATOM	308	CA	LEU A	41	14.515	39.469	28.424	1.00 31.96	AAAA
ATOM	309	СВ	LEU A	41	14.208	39.624	26.931	1.00 31.70	AAAA
ATOM	310	CG	LEU A	41	14.399	38.428	25.992	1.00 29.59	AAAA
MOTA	311		LEU A	41	13.458	37.325	26.360	1.00 29.35	AAAA
ATOM	312	CD2		41	14.166	38.873	24.563	1.00 29.14	AAAA
ATOM	313	c	LEU A	41	15.931	38.935	28.616	1.00 31.60	AAAA
ATOM	314	ŏ	LEU A	41	16.879	39.453	28.038	1.00 30.57	AAAA
ATOM	315	N	GLU A	42	16.063	37.895	29.434	1.00 31.22	AAAA
ATOM	316	CA	GLU A	42	17.358	37.307	29.732	1.00 29.63	AAAA
ATOM	317	CB	GLU A	42	17.582	37.284	31.241	1.00 28.39	AAAA
ATOM .	318	CG	GLU A	42	18.001	38.625	31.827	1.00 31.36	AAAA
ATOM	319	CD	GLU A	42	18.216	38.576	33.332	1.00 32.60	AAAA
ATOM	320	OE1		42	18.631	39.603	33.926	1.00 31.42	AAAA
ATOM	321	OE2		42	17.957	37.505	33.920	1.00 32.54	AAAA
ATOM	322	C	GLU A	42	17.508	35.914	29.189	1.00 29.51	AAAA
ATOM	323	Ö	GLU A	42	17.044	34.967	29.798	1.00 30.37	AAAA
ATOM	324	N	ILE A	43	18.158	35.794	28.038	1.00 30.12	AAAA
ATOM	325	CA	ILE A	43	18.402	34.498	27.405	1.00 30.12	AAAA
ATOM	326	CB	ILE A	43	18.289	34.596	25.881	1.00 28.68	AAAA
ATOM	327	CG2	ILE A	43	18.475	33.237	25.276	1.00 31.05	AAAA
ATOM	328	CG1	ILE A	43	16.931	35.163	25.489	1.00 28.56	AAAA
ATOM	329	CD1		43	15.772	34.440	26.111	1.00 20.30	AAAA
ATOM	330	C	ILE A	43	19.814	34.027	27.764	1.00 31.05	AAAA
ATOM	331	ŏ	ILE A	43	20.811	34.465	27.171	1.00 30.94	AAAA
ATOM	332	N	THR A	44	19.897	33.114	28.724	1.00 31.13	AAAA
MOTA	333	CA	THR A	44	21.198		29.171	1.00 31.78	AAAA
ATOM	334	CB	THR A	44	21.561	33.366	30.506	1.00 32.62	AAAA
ATOM	335	OG1		44	22.611	32.659	31.170	1.00 34.46	AAAA
ATOM	336	CG2		44	20.356	33.448	31.427	1.00 31.31	AAAA
ATOM	337	C	THR A	44	21.426	31.134	29.328	1.00 30.98	AAAA
ATOM	338	o	THR A	44	20.514	30.370	29.628	1.00 29.97	AAAA
ATOM	339	N	TYR A	45	22.670	30.728	29.095	1.00 30.43	AAAA
ATOM	340	CA	TYR A	45	23.124	29.352	29.228	1.00 30.09	AAAA
ATOM	341	CB	TYR A	45	23.073	28.959	30.697	1.00 30.57	AAAA
ATOM	342	CG	TYR A	45	24.010	29.752	31.556	1.00 31.86	AAAA
ATOM	343	CD1	TYR A	45	23.527	30.627	32.518	1.00 31.33	AAAA
ATOM	344		TYR A	45	24.390	31.390	33.291	1.00 32.40	AAAA
ATOM	345		TYR A	45	25.386	29.651	31.389	1.00 32.40	AAAA
ATOM	346		TYR A	45	26.258	30.405	32.160	1.00 33.92	AAAA
ATOM	347	CZ	TYR A	45	25.753	31.278	33.109	1.00 33.76	AAAA
ATOM	348	ОН	TYR A	45	26.612	32.053	33.856	1.00 34.93	AAAA
ATOM	349	C	TYR A	45	22.477	28.243	28.396	1.00 30.71	AAAA
ATOM	350	ō	TYR A	45	22.759	27.066	28.623	1.00 31.67	AAAA
ATOM	351	N	VAL A	46	21.623	28.588	27.439	1.00 29.73	AAAA
ATOM	352	CA	VAL A	46	20.988	27.559	26.622	1.00 27.26	AAAA
ATOM	353	СВ	VAL A	46	20.002	28.184	25.624	1.00 25.06	AAAA
ATOM	354		VAL A	46	19.374	27.122	24.772	1.00 21.59	AAAA
ATOM	355		VAL A	46	18.924	28.933	26.386	1.00 22.42	AAAA
ATOM	356	C	VAL A	46	22.092	26.791	25.912	1.00 27.17	AAAA
ATOM	357	o	VAL A	46	23.091	27.367	25.529	1.00 26.81	AAAA
ATOM	358	N	GLN A	47	21.915	25.484	25.766	1.00 29.25	AAAA
ATOM	359	CA	GLN A	47	22.926	24.632	25.149	1.00 32.15	AAAA
ATOM	360	CB	GLN A	47	23.222	23.461	26.074	1.00 30.54	AAAA
ATOM	361	CG	GLN A	47	23.642	23.849	27.465	1.00 30.59	AAAA
ATOM	362	CD	GLN A	47	25.042	24.256	27.547	1.00 30.61	AAAA
ATOM	363		GLN A	47	25.980	23.477	27.245	1.00 30.62	AAAA
ATOM	364	NE2		47	25.328	25.485	27.965	1.00 30.02	. AAAA
ATOM	365	C	GLN A	47	22.592	24.084	23.760	1.00 34.96	AAAA
ATOM	366	0	GLN A	47	21.421	24.004	23.760	1.00 34.72	AAAA
ATOM	367	И	ARG A	48	23.643	23.691	23.038	1.00 37.37	AAAA
ATOM	368	CA	ARG A	48	23.510	23.137	21.692	1.00 37.37	AAAA
ATOM	369	CB	ARG A	48	24.795	22.425	21.281	1.00 33.33	AAAA
ATOM	370	CG	ARG A	48	25.967	23.348	21.037	1.00 47.64	
112 -41	510	-00	12.0 A	40	25.907	20.040		_,,,,,,,,	•

ATOM	371	CD	ARG	A	48	27.302	22.677	21.377	1.00 53.31	AAAA
MOTA	372	NE	ARG	Α	48	27.727	22.915	22.763	1.00 58.20	AAAA
MOTA	373	CZ	ARG		48	27.283	22.259	23.836	1.00 59.64	AAAA
ATOM	374		ARG		48	26.382	21.286	23.718	1.00 60.21	AAAA
ATOM	375		ARG		48	27.739	22.591	25.038 21.618	1.00 60.15 1.00 39.16	AAAA AAAA
ATOM	376 377	С 0	ARG ARG		48 48	22.358	22.156	22.375	1.00 40.48	AAAA
ATOM ATOM	378	N	ASN		49	21.433	22.431	20.710	1.00 38.54	AAAA
ATOM	379	CA	ASN		49	20.272	21.583	20.483	1.00 36.22	AAAA
ATOM	380	CB	ASN		49	20.729	20.132	20.272	1.00 37.23	AAAA
ATOM	381	CG	ASN	Α	49	21.688	19.978	19.080	1.00 39.56	AAAA
ATOM	382		ASN		49	21.338	20.267	17.931	1.00 40.26	AAAA
ATOM	383		ASN		49	22.902	19.516	19.358	1.00 40.67	AAAA
ATOM	384	C	ASN		49	19.166	21.638	21.537 22.049	1.00 34.68 1.00 34.93	AAAA AAAA
ATOM ATOM	385 386	O N	ASN TYR		49 50	18.755 18.668	20.609	21.853	1.00 34.93	AAAA
ATOM	387	CA	TYR		50	17.580	22.935	22.818	1.00 32.37	AAAA
ATOM	388	CB	TYR		50	18.027	23.681	24.070	1.00 31.43	AAAA
ATOM	389	CG	TYR		50	18.399	22.787	25.235	1.00 29.72	AAAA
MOTA	390	CD1	TYR	Α	50	19.711	22.372	25.422	1.00 29.50	AAAA
MOTA	391	CE1	TYR	Α	50	20.069	21.575	26.506	1.00 28.79	AAAA
MOTA	392	CD2			50	17.442	22.377	26.164	1.00 28.50	AAAA
ATOM	393	CE2			50	17.792	21.579	27.255	1.00 27.49	AAAA
ATOM	394	CZ	TYR		50	19.111	21.184	27.419	1.00 28.18 1.00 27.60	АААА АААА
ATOM	395	ОН	TYR		50	19.495	20.411 23.561	28.493 22.305	1.00 27.80	AAAA
ATOM ATOM	396 397	С 0	TYR TYR		50 50	16.278 15.318	23.501	23.055	1.00 34.88	AAAA
ATOM	398	N	ASP		51	16.226	23.954	21.040	1.00 32.53	AAAA
ATOM	399	CA	ASP		51	15.011	24.545	20.462	1.00 32.61	AAAA
ATOM	400	СВ	ASP		51	13.931	23.487	20.156	1.00 32.88	AAAA
ATOM	401	CG	ASF	Α	51	12.755	24.060	19.326	1.00 33.49	AAAA
ATOM	402	OD1	ASE	A.	51	11.700	23.402	19.193	1.00 33.80	AAAA
MOTA	403		ASE		51	12.888	25.176	18.793	1.00 31.51	AAAA
MOTA	404	C	ASE		51	14.357	25.623	21.305	1.00 32.34	AAAA
ATOM	405	0	ASE		51	13.594 14.653	25.345 26.857	22.231 20.947	1.00 31.84 1.00 31.82	AAAA AAAA
ATOM ATOM	406 407	N CA	LEU		52 52	14.033	28.008	21.611	1.00 31.02	AAAA
ATOM	408	CB	LEU		52	15.223	28.978	21.965	1.00 33.06	AAAA
ATOM	409	CG	LEU		52	16.355	28.478	22.861	1.00 31.38	AAAA
ATOM	410		LEU		52	17.602	29.314	22.643	1.00 31.11	AAAA
ATOM	411	CD2	LEU	A	52	15.904	28.540	24.296	1.00 31.01	AAAA
ATOM	412	С	LEU		52	13.173	28.633	20.571	1.00 34.37	AAAA
ATOM	413	0	LEU		52	13.261	29.828	20.289	1.00 34.94	AAAA AAAA
MOTA	414	N	SEF		53 53	12.308 11.377	27.813 28.295	19.976 18.952	1.00 35.59 1.00 35.83	AAAA
ATOM ATOM	415 416	CA CB	SEF SEF		53	10.849	27.137	18.106	1.00 33.03	AAAA
ATOM	417	OG	SEF		53	11.860	26.631	17.248	1.00 40.40	AAAA
ATOM	418	Ċ	SEF		53	10.213	29.034	19.562	1.00 34.21	AAAA
ATOM	419	0	SEI	RA	53	9.437	29.666	18.858	1.00 33.53	AAAA
MOTA	420	N		ΕΑ	54	10.096	28.938	20.877	1.00 33.41	AAAA
MOTA	421	CA		A 3	54	9.033	29.612	21.587	1.00 34.26	AAAA
ATOM	422	CB		A	54	8.923	29.040	23.006 23.802	1.00 36.80 1.00 37.39	AAAA AAAA
ATOM ATOM	423 424	CG	PHI L PHI	ΕΑ	54 54	10.203	29.110 30.295	24.408	1.00 37.39	AAAA
ATOM	425		2 PH		54	11.021	27.993	23.920	1.00 37.64	AAAA
ATOM	426		L PHI		54	11.796	30.364	25.114	1.00 38.50	AAAA
ATOM	427		2 PHI		54	12.216	28.056	24.623	1.00 38.35	AAAA
MOTA	428	CZ	PHI	EΑ	54	12.604	29.244	25.220	1.00 38.39	AAA
MOTA	429	С		ΕA	54	9.307	31.118		1.00 33.82	AAAA
ATOM	430	0		EΑ		8.402	31.923	21.850	1.00 33.90	AAAA
ATOM	431	N		U A		10.563	31.485	21.377	1.00 32.49	AAAA AAAA
ATOM	432 433			U A U A		10.991 12.519	32.879 32.973		1.00 31.03	AAAA
ATOM ATOM	434			UA		13.252	32.481			AAAA
ATOM	435		LE			14.746	32.595			AAAA
ATOM	436		2 LE			12.818	33.297		1.00 22.22	AAAA
ATOM	437			U A		10.484	33.612			AAAA
ATOM	438		LE	U A	. 55	10.605	34.835			AAAA
ATOM	439			s A		9.924	32.864			AAAA
MOTA	440			S A		9.395	33.451			AAAA
MOTA	441			SA		9.062	32.349			AAAA
MOTA	442			SA		10.279 9.913	31.659 30.437			AAAA AAAA
ATOM ATOM	443 444			SA SA		11.180	29.725			AAAA
ATOM	445			SA		10.987	28.282			AAAA
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ATOM	446	С	LYS 2	A. 5	56		8.153	34.310	18.219	1.00	33.22	AAAA
ATOM	447	0	LYS 2		56		7.596	34.879	17.284	1.00		AAAA
ATOM	448	N	THR I		57		7.712	34.411	19.468	1.00		АААА АААА
ATOM	449 450	CA CB	THR I		57 57		6.537 5.516	35.222 34.477	19.750 20.656	1.00		AAAA
ATOM ATOM	451		THR A		57		6.130	34.122	21.895	1.00		AAAA
ATOM	452		THR 2		57		5.005	33.231	19.976	1.00		AAAA
ATOM	453	С	THR 2	A :	57		6.867	36.569	20.389	1.00	32.93	AAAA
ATOM	454	0	THR		57		6.091	37.513	20.275	1.00		AAAA.
MOTA	455	N	ILE :		58		8.020	36.670	21.043	1.00		AAAA
ATOM	456	CA	ILE :		58 58		8.407 9.807	37.918 37.798	21.704 22.374	1.00		AAAA AAAA
ATOM ATOM	457 458	CB	ILE :		58		10.237	39.133	22.956	1.00		AAAA
ATOM	459		ILE .		58		9.777	36.715	23.451	1.00		AAAA
ATOM	460	CD1	ILE .	Α !	58		8.562	36.783	24.338	1.00		AAAA
ATOM	461	С	ILE .		58		8.435	39.084	20.731		36.36	AAAA
ATOM	462	0	ILE .		58		9.338	39.178	19.911	1.00	38.6 <i>1</i> 36.49	<b>A</b> AAA AAAA
ATOM ATOM	463 464	N CA	GLN .		59 59		7.461 7.438	39.980 41.115	20.817 19.899	1.00		AAAA
ATOM	465	CB	GLN .		59		6.006	41.500	19.528		40.06	AAAA
ATOM	466	CG	GLN .		59		5.220	40.444	18.791		44.20	AAAA
ATOM	467	CD	GLN .	Α!	59		3.980	41.023	18.159		46.87	AAAA
MOTA	468	OE1	GLN .		59.		4.064	41.902	17.288	1.00		AAAA
ATOM	469	NE2	GLN .		59		2.816	40.549	18.595		47.66	AAAA
ATOM	470	C	GLN .		59 50		8.109 8.956	42.345 42.957	20.466 19.815	1.00 1.00		AAAA AAAA
ATOM ATOM	471 472	O N	GLN GLU		59 60		7.712	42.696	21.689	1.00		AAAA
ATOM	473	CA	GLU		60		8.207	43.878	22.383	1.00		AAAA
ATOM	474	CB	GLU		60		7.047	44.865	22.550	1.00	40.28	AAAA
MOTA	475	CG	GLU		60		7.377	46.078	23.399	1.00		AAAA
MOTA	476	CD	GLU		60		6.183	46.994	23.646	1.00	47.49	AAAA AAAA
ATOM ATOM	477 478		GLU GLU		60 60		5.462 5.990	47.34 <b>1</b> 47.376	22.673 24.825		48.26	AAAA
ATOM	479	C	GLU		60		8.816	43.557	23.750	1.00		AAAA
ATOM	480	ō	GLU		60		8.255	42.784	24.521	1.00	34.92	AAAA
ATOM	481	N	VAL	A ·	61		9.963	44.163	24.035	1.00		AAAA
ATOM	482	CA	VAL		61		10.669	43.988	25.299		31.09	AAAA
ATOM	483	CB	VAL		61 61		11.995	43.239 43.492	25.091 26.256	1.00 1.00		AAAA AAAA
ATOM ATOM	484 485		VAL VAL		61 61		12.915 11.737	43.492	24.953		30.73	AAAA
ATOM	486	C	VAL		61		10.969	45.370	25.881		32.08	AAAA
MOTA	487	0	VAL		61		11.808	46.105	25.356	1.00	32.55	AAAA
MOTA	488	N	ALA		62		10.279	45.725	26.963		32.54	AAAA
ATOM	489	CA	ALA		62		10.453	47.032	27.597		31.29	AAAA AAAA
ATOM ATOM	490 491	CB C	ALA ALA		62 62		9.108 11.370	47.573 46.919	28.023 28.792		30.53	AAAA
ATOM	492	ō	ALA		62		10.917	46.815	29.921		33.14	AAAA
ATOM	493	N	GLY		63		12.667	46.949	28.538	1.00	29.79	AAAA
ATOM	494	CA	GLY	Α	63		13.650	46.816	29.595		27.43	AAAA
ATOM	495	C	GLY		63		14.866	46.392	28.827		26.51	AAAA
ATOM	496	0	GLY		63 64		14.962 15.782	46.769 45.622	27.670 29.403		27.91 25.00	AAAA AAAA
ATOM ATOM	497 498	N CA	TYR TYR		64		16.937	45.228	28.617		23.34	AAAA
ATOM	499	CB	TYR		64		18.249	45.433	29.381		24.00	AAAA
MOTA	500	CG	TYR		64		18.465	44.577	30.606		24.14	AAAA
MOTA	501		TYR		64		18.366	43.197	30.551		24.46	AAAA
ATOM	502		TYR		64		18.594	42.417	31.684 31.823		25.64 24.96	AAAA AAAA
ATOM ATOM	503 504		TYR TYR		64 64		18.802 19.033	45.159 44.397	32.954		23.56	AAAA
ATOM	505	CZ	TYR		64		18.923	43.028	32.884		24.38	AAAA
ATOM	506	ОН	TYR		64		19.095	42.272	34.022	1.00	25.45	AAAA
ATOM	507	С	TYR		64		16.863	43.817	28.091		22.14	AAAA
MOTA	508	0	TYR		64		15.985	43.048	28.457	_	23.90	AAAA
ATOM	509	N	VAL		65 65		17.788	43.500	27.197		21.05 19.44	AAAA AAAA
ATOM ATOM	510 511	CA CB	VAL		65 65		17.890 17.488	42.186 42.256	26.591 25.119		16.28	AAAA
ATOM	511		VAL		65		17.435	40.917	24.619		15.67	AAAA
ATOM	513		VAL		65		16.366	43.210	24.964		16.86	AAAA
ATOM	514	C	VAL	Α	65		19.361	41.751	26.751		20.09	AAAA
ATOM	515	0	VAL		65		20.285	42.451	26.356		19.45	AAAA AAAA
ATOM	516	N CA	LEU		66 66		19.563	40.593	27.362 27.609		21.43 21.99	AAAA AAAA
ATOM ATOM	517 518	CA CB	LEU		66		20.891 21.111	40.070 39.946	29.106		19.84	AAAA
ATOM	519	CG	LEU		66	•	22.488	39.512	29.573		19.58	AAAA
ATOM	520		LEU		66	•	23.529	40.501	29.121	1.00	20.67	AAAA

ATOM	521	CD2	LEU	А	66	2	2.479	39.417	31.074	1.00 20.90	AAAA
ATOM	522	С	LEU	Α	66	2	0.997	38.708	26.996	1.00 23.81	AAAA
ATOM	523	0	LEU		66		0.318	37.804	27.443	1.00 26.39	AAAA
ATOM	524	N	ILE		67		1.841	38.557	25.978	1.00 25.38	AAAA
ATOM	525	CA	ILE		67		22.043	37.260	25.307	1.00 25.75	AAAA AAAA
ATOM	526	CB	ILE		67 67		21.878 21.812	37.368 35.985	23.767 23.168	1.00 23.72 1.00 25.36	AAAA
ATOM ATOM	527 528		ILE		67		20.623	38.146	23.401	1.00 20.31	AAAA
ATOM	529		ILE		67		9.377	37.448	23.750	1.00 19.97	AAAA
ATOM	530	C	ILE		67		23.486	36.816	25.565	1.00 26.50	AAAA
ATOM	531	0	ILE	A	67	2	24.339	36.968	24.689	1.00 27.41	AAAA
MOTA	532	N	ALA		68		23.759	36.260	26.745	1.00 26.61	AAAA
MOTA	533	CA	ALA		68		25.116	35.845	27.092	1.00 25.89	AAAA
ATOM	534	СВ	ALA		68		25.653 25.304	36.775 34.411	28.119 27.577	1.00 25.08 1.00 27.18	АААА АААА
ATOM ATOM	535 536	C 0	ALA ALA		68 68		24.430	33.834	28.218	1.00 27.10	AAAA
ATOM	537	N	LEU		69		26.470	33.854	27.272	1.00 27.63	AAAA
ATOM	538	CA	LEU		69		26.870	32.498	27.671	1.00 28.95	AAAA
MOTA	539	CB	LEU		69	:	26.951	32.385	29.202	1.00 27.52	AAAA
MOTA	540	CG	LEU	Α	69	:	28.211	32.992	29.821	1.00 27.34	AAAA
ATOM	. 541		LEU		69		28.229	34.480	29.592	1.00 28.42	AAAA
ATOM	542		LEU		69		28.240	32.733	31.290	1.00 26.80	AAAA
ATOM	543	C	LEU		69		26.074	31.320 30.269	27. <b>1</b> 29 27.761	1.00 30.54 1.00 31.97	AAAA AAAA
ATOM ATOM	544 545	O N	LEU ASN		69 70		26.010 25.476	31.479	25.955	1.00 31.37	AAAA
ATOM	546	CA	ASN		70		24.718	30.386	25.359	1.00 32.63	AAAA
ATOM	547	CB	ASN		70		23.464	30.888	24.628	1.00 35.05	AAAA
ATOM	548	CG	ASN	Α	70		22.753	32.013	25.354	1.00 37.76	AAAA
ATOM	549	OD1	ASN	Α	70		21.527	32.103	25.321	1.00 39.18	AAAA
ATOM	550		ASN		70		23.514	32.892	25.981	1.00 39.20	AAAA
ATOM	551	C	ASN		70		25.629	29.716	24.335 23.832	1.00 32.01 1.00 30.46	AAAA AAAA
ATOM ATOM	552 553	N O	ASN THR		70 71		26.566 25.351	30.328 28.453	24.041	1.00 30.48	AAAA
ATOM	554	CA	THR		71		26.117	27.700	23.058	1.00 32.97	AAAA
ATOM	555	CB	THR		71		26.976	26.582	23.731	1.00 32.88	AAAA
ATOM	556	OG1	THR	Α	71		26.215	25.923	24.750	1.00 31.78	AAAA
ATOM	557		THR		71		28.240	27.171	24.340	1.00 30.54	AAAA
ATOM	558	С	THE		71		25.131	27.097	22.052	1.00 33.38	AAAA
MOTA	559	0	THE		71		25.520	26.414	21.107 22.258	1.00 34.13 1.00 33.64	AAAA AAAA
ATOM ATOM	560 561	N CA	VAI VAI		72 72		23.857 22.723	27.423	21.461	1.00 34.99	AAAA
ATOM	562	CB	VAI		72		21.443	27.669	21.966	1.00 33.70	AAAA
ATOM	563		. VAI		72		21.563	29.144	21.772	1.00 32.79	AAAA
ATOM	564		VAI		72		20.218	27.115	21.278	1.00 33.36	AAAA
MOTA	565	С	VAI	A	72		22.791	27.025			AAAA
MOTA	566	0	VAI		72		22.313	26.106	19.241	1.00 38.93	AAAA
ATOM	567	N	GLU		73		23.363	28.082	19.350	1.00 36.82 1.00 38.28	AAAA AAAA
ATOM ATOM	568 569	CA CB	GLU GLU		73 73		23.502 23.625	28.217 26.856	17.892 17.206	1.00 40.20	AAAA
ATOM	570	CG	GLU		73		24.104	26.979	15.767	1.00 43.88	AAAA
ATOM	571	CD		JΑ	73		23.323	26.111	14.812	1.00 45.83	AAAA
ATOM	572	OE1	GLU	JA	73		23.582	26.187	13.590	1.00 45.11	AAAA
MOTA	573	OE	GLU		73		22.450	25.356	15.291	1.00 47.64	AAAA
ATOM	574	C		J A			22.436	29.018	17.152	1.00 37.17	AAAA
MOTA	575 576	0		JA			22.731	29.645 28.977	16.136 17.611	1.00 36.81 1.00 36.04	AAAA AAAA
ATOM ATOM	576 577	N CA		3 A 3 A			21.196 20.177	29.781	16.954	1.00 37.43	AAAA
ATOM	578	CB		3 A			19.523	29.036	15.785	1.00 41.27	AAAA
ATOM	579	CG		3 A			18.540	29.920	14.984	1.00 44.99	AAAA
ATOM	580	CD	ARG	ЭΑ	74		17.881	29.185	13.813		AAAA
MOTA	581	NE		зA			17.091	30.075	12.948	1.00 53.74	AAAA
ATOM	582	CZ		ЭA			17.574	30.786	11.923		AAAA
ATOM	583		1 AR				18.863	30.732	11.604	1.00 54.59	AAAA AAAA
ATOM	584		2 AR				16.758	31.551 30.238	11.202 17.919		AAAA
ATOM ATOM	585 586			G A G A			19.098 18.384	29.418			AAAA
ATOM	587	N		БA EA			18.985	31.552			AAAA
ATOM	588			ΕA			17.979				AAAA
ATOM	589			ΕA			18.642			1.00 29.72	AAAA
MOTA	590		2 IL				17.663				AAAA
ATOM	591		1 IL				19.900				AAAA
ATOM	592		1 IL				20.653				AAAA AAAA
ATOM ATOM	593 594			E A E A			16.987 17.171				AAAA
ATOM	595			o A			15.924				AAAA
				-							

ATOM	596	CD	PRO	А	76	15.757	30.822	17.860	1.00 23.69	AAAA
MOTA	597	CA	PRO	Α	76	14.834	32.759	16.786	1.00 24.18	AAAA
ATOM	598	СВ	PRO		76	13.949	31.533	16.629	1.00 23.97	AAAA
ATOM ATOM	599 600	CG C	PRO PRO		76 76	14.918 14.030	30.424 33.973	16.695 17.245	1.00 25.20 1.00 24.42	AAAA AAAA
ATOM	601	Ö	PRO		76	12.805	33.912	17.318	1.00 24.47	AAAA
ATOM	602	N	LEU		77	14.711	35.074	17.544	1.00 25.42	AAAA
ATOM	603	CA	LEU		77	14.046	36.313	17.954	1.00 25.64	AAAA
ATOM	604	CB	FEU		77	15.031 15.321	37.240 36.875	18.687 20.147	1.00 23.25 1.00 20.92	AAAA AAAA
ATOM ATOM	605 606	CG CD1	LEU		77 77	16.466	37.661	20.147	1.00 20.56	AAAA
ATOM	607		LEU		77	14.092	37.149	20.948	1.00 20.23	AAAA
ATOM	608	C	LEU	A	77	13.548	36.978	16.685	1.00 27.21	AAAA
ATOM	609	0	LEU		77	13.666	38.189	16.525	1.00 28.63	AAAA
ATOM	610	И	GLU		78 70	12.987	36.150 36.522	15.801 14.476	1.00 29.82 1.00 31.56	AAAA AAAA
ATOM ATOM	611 612	CA CB	GLU GLU		78 78	12.458 12.015	35.248	13.735	1.00 34.12	AAAA
ATOM	613	CG	GLU		78	13.154	34.315	13.300	1.00 36.94	AAAA
ATOM	614	CD	GLU		78	12.647	33.031	12.647	1.00 38.41	AAAA
ATOM	615		GLU		78	11.427	32.953	12.373	1.00 39.18	AAAA
MOTA	616		GLU		78	13.464	32.106	12.403	1.00 38.07	AAAA
ATOM	617	C	GLU		78 78	11.328 11.056	37.563 38.082	14.373 13.291	1.00 31.51 1.00 31.01	AAAA AAAA
ATOM ATOM	618 619	O N	ASN		79	10.664	37.868	15.479	1.00 31.85	AAAA
ATOM	620	CA	ASN		79	9.587	38.848	15.446	1.00 30.71	AAAA
MOTA	621	CB	ASN	Α	79	8.258	38.128	15.528	1.00 32.96	AAAA
ATOM	622	CG	ASN		79	7.910	37.463	14.239	1.00 34.38	AAAA
ATOM	623		ASN ASN		79 79	7.444 8.160	38.114 36.165	13.311 14.152	1.00 36.70 1.00 35.40	AAAA AAAA
ATOM ATOM	624 625	C	ASN		79	9.656	39.950	16.492	1.00 29.24	AAAA
ATOM	626	ŏ	ASN		79	8.651	40.541	16.841	1.00 28.78	AAAA
MOTA	627	N	LEU	А	80	10.862	40.231	16.959	1.00 27.96	AAAA
ATOM	628	CA	LEU		80	11.103	41.262	17.947	1.00 27.79	AAAA
ATOM	629	CB	LEU LEU		80	12.321 12.742	40.866 41.851	18.782 19.859	1.00 25.97 1.00 24.40	АААА АААА
ATOM ATOM	630 631	CG CD1	LEU		80 80	11.635	41.897	20.873	1.00 23.83	AAAA
ATOM	632		LEU		80	14.073	41.446	20.488	1.00 22.52	AAAA
MOTA	633	C	LEU	Α	80	11.366	42.577	17.204	1.00 29.00	AAAA
MOTA	634	0	LEU		80	12.330	42.682	16.451	1.00 27.98	AAAA
ATOM	635	N	GLN		81 81	10.527 10.689	43.585 44.865	17.429 16.735	1.00 30.55 1.00 32.18	AAAA AAAA
ATOM ATOM	636 637	CA CB	GLN GLN		81	9.367	45.260	16.084	1.00 32.10	AAAA
ATOM	638	CG	GLN		81	8.531	44.080	15.677	1.00 32.80	AAAA
ATOM	639	CD	GLN	A	81	7.264	44.493	14.995	1.00 33.64	AAAA
MOTA	640	OE1			81.	7.250				AAAA
ATOM ATOM	641 642	NE2	GLN GLN		81 81	6.184 11.175	44.563 46.035	15.758 17.594	1.00 32.74 1.00 33.08	AAAA AAAA
ATOM	643	0	GLN		81	12.093	46.770	17.210	1.00 32.81	AAAA
ATOM	644	N	ILE		82	10.556	46.207	18.756	1.00 34.24	. Aaaa
ATOM	645	CA	ILE		82	10.900	47.309	19.645	1.00 34.92	AAAA
ATOM	646	CB	ILE		82	9.646	48.184	19.910	1.00 36.44	AAAA AAAA
ATOM ATOM	647 648		ILE		82 82	9.024 9.998	47.800 49.678	21.241 19.854	1.00 35.76 1.00 36.84	AAAA
ATOM	649		ILE		82	10.798	50.196	21.030	1.00 37.63	AAAA
ATOM	650	C	ILE		82	11.459	46.832	20.974	1.00 33.83	AAAA
ATOM	651	0	ILE		82	10.989	45.852	21.541	1.00 34.78	AAAA
MOTA	652	N	ILE		83	12.464	47.548	21.458	1.00 32.77	АААА АААА
ATOM ATOM	653 654	CA CB	ILE		83 83	13.118 14.483	47.267 46.583	22.730 22.492	1.00 31.39 1.00 30.39	AAAA
ATOM	655		ILE		83	15.342	46.609	23.738	1.00 30.26	AAAA
ATOM	656		ILE		83	14.252	45.148	22.052	1.00 29.08	AAAA
ATOM	657		ILE		83	15.522	44.412	21.789	1.00 30.68	AAAA
ATOM	658	C	ILE		83	13.308	48.631	23.393	1.00 31.68	АААА АААА
ATOM ATOM	659 660	O N	ILE ARG		83 84	14.266 12.377	49.346 48.994	23.103 24.270	1.00 31.74 1.00 32.12	AAAA
ATOM ATOM	661	CA	ARG		84	12.405	50.288	24.270	1.00 32.91	AAAA
ATOM	662	CB	ARG		84	11.093	50.484	25.703	1.00 30.84	AAAA
ATOM	663	CG	ARG		84	9.898	50.289	24.820	1.00 31.61	AAAA
ATOM	664	CD	ARG		84	8.701	49.785	25.596	1.00 32.83	АААА АААА
ATOM ATOM	665° 666	NE CZ	ARG ARG		84 84	7.632 6.939	49.374 50.209	24.693 23.922	1.00 34.40 1.00 35.66	AAAA
ATOM .	667		ARG ARG		84	7.193	51.516	23.946	1.00 34.60	AAAA
ATOM	668		ARG		84	6.001	49.732	23.109	1.00 35.85	AAAA
MOTA	669	С	ARG		84	13.565	50.448	25.931	1.00 34.82	AAAA
ATOM	670	0	ARG	A	84	14.094	49.475	26.469	1.00 36.39	AAAA

ATOM	671	N	GLY	Α	85	13.967	51.684	26.166	1.00 35.60	AAAA
ATOM	672	CA	GLY		85	15.060	51.905	27.094	1.00 37.14	AAAA
ATOM	673	С	GLY		85	14.867	51.352	28.499	1.00 37.51	AAAA
ATOM	674	ō	GLY		85	15.759	50.702	29.026	1.00 38.02	AAAA
ATOM	675	N	ASN		86	13.707	51.621	29.020	1.00 38.11	AAAA
	676	CA	ASN		86	13.767	51.190	30.456	1.00 39.08	AAAA
ATOM										
ATOM	677	CB	ASN		86	12.390	50.004	30.391	1.00 39.85	AAAA
ATOM	678	CG	ASN		86	10.950	50.447	30.139	1.00 41.39	AAAA
ATOM	679		ASN		86	10.659	51.125	29.153	1.00 41.32	AAAA
ATOM	680	ND2	ASN	Α	86	10.047	50.073	31.040	1.00 40.05	AAAA
ATOM	681	С	ASN	Α	86	14.501	50.905	31.430	1.00 38.81	AAAA
ATOM	682	0	ASN	Α	86	14.926	51.803	32.155	1.00 39.22	AAAA
ATOM	683	N	MET	Α	87	15.000	49.676	31.470	1.00 38.50	AAAA
ATOM	684	CA	MET	Α	87	16.101	49.350	32.377	1.00 38.48	AAAA
ATOM	685	CB		Α	87	15.690	48.202	33.297	1.00 39.61	AAAA
ATOM	686	CG		Α	87	15.974	48.417	34.782	1.00 40.63	AAAA
ATOM	687	SD	MET		87	15.668	46.896	35.760	1.00 40.12	AAAA
ATOM	688	CE	MET		87	13.889	46.805	35.657	1.00 40.88	AAAA
		C			87				1.00 38.42	AAAA
ATOM	689		MET			17.356	48.960	31.585		
MOTA	690	0	MET		87	17.265	48.390	30.498	1.00 38.31	AAAA
ATOM	691	N	TYR		88	18.528	49.270	32.124	1.00 37.21	AAAA
MOTA	692	CA	TYR		88	19.769	48.943	31.437	1.00 36.60	AAAA
MOTA	693	CB	TYR		88	20.734	50.138	31.426	1.00 36.28	AAAA
MOTA	694	CG	TYR	A	88	20.260	51.359	30.665	1.00 34.62	AAAA
ATOM	695	CD1	TYR	Α	88	20.962	52.559	30.743	1.00 32.30	AAAA
ATOM	696	CE1	TYR	Α	88	20.498	53.709	30.103	1.00 32.31	AAAA
ATOM	697	CD2	TYR	Α	88	19.082	51.333	29.911	1.00 34.80	AAAA
ATOM	698	CE2	TYR	Α	88	18.611	52.482	29.265	1.00 34.16	AAAA
ATOM	699	CZ	TYR	Α	88	19.324	53.664	29.373	1.00 31.95	AAAA
ATOM	700	OH	TYR		88	18.842	54.801	28.791	1.00 28.56	AAAA
ATOM	701	С	TYR		88	20.468	47.790	32.112	1.00 36.47	AAAA
ATOM	702	ō	TYR		88	20.004	47.288	33.126	1.00 37.10	AAAA
ATOM	703	N	TYR		89	21.588	47.382	31.521	1.00 37.14	AAAA
ATOM	704	CA	TYR		89	22.452	46.311	32.023	1.00 37.27	AAAA
	705					22.516	45.158	31.032	1.00 37.27	AAAA
MOTA		CB	TYR		89					
ATOM	706	CG	TYR		89	23.434	44.046	31.466	1.00 31.85	AAAA
ATOM	707		TYR		89	23.038	43.137	32.438	1.00 30.43	AAAA
ATOM	708		TYR		89	23.890	42.131	32.863	1.00 30.51	AAAA
ATOM	709		TYR		89	24.710	43.920	30.923	1.00 30.63	AAAA
MOTA	710	CE2			89	25.573	42.916	31.341	1.00 29.59	AAAA
MOTA	711	CZ	TYR		89	25.157	42.027	32.313	1.00 30.44	AAAA
MOTA	712	OH	TYR	Α	89	26.005	41.035	32.749	1.00 30.49	AAAA
ATOM	713	С	TYR	. A	89	23.834	46.951	32.147	1.00 38.30	AAAA
ATOM	714	0	TYR	. A	89	24.257	47.699	31.271	1.00 39.23	AAAA
ATOM -	715	N .	GLU	Α	90	24.549-	46.659	33:219	1.00 39.31	AAAA
ATOM	716	CA	GLU	Α	90	25.849	47.282	33.413	1.00 41.28	AAAA
ATOM	717	CB	GLU	Α	90	26.846	46.842	32.338	1.00 42.64	AAAA
ATOM	718	CG	GLU	Α	90	28.292	46.813	32.832	1.00 45.23	AAAA
ATOM	719	CD	GLU	Α	90	28.700	48.090	33.567	1.00 47.63	AAAA
ATOM	720		GLU		90	28.988	49.112	32.904	1.00 48.55	AAAA
ATOM	721		GLU		90	28.725	48.079	34.817	1.00 49.12	AAAA
ATOM	722	C	GLU		90	25.631	48.799		1.00 41.78	AAAA
ATOM	723	Ö	GLU		90	26.440	49.550	32.805	1.00 41.97	AAAA
ATOM	724	N	ASN		91	24.502	49.230	33.893	1.00 42.79	AAAA
	725					24.132	50.638	33.954	1.00 43.13	AAAA
ATOM		CA	ASN		91					AAAA
ATOM	726	CB	ASN		91	24.911	51.338	35.085	1.00 42.24	
ATOM	727	CG	ASN		91	26.412	51.309	34.873	0.01 42.09	AAAA
ATOM	728		ASN		91	26.926	51.869	33.905	0.01 41.87	AAAA
MOTA	729		ASN		91	27.125	50.650	35.780	0.01 41.86	AAAA
ATOM	730	С	ASN		91	24.297	51.435	32.666	1.00 42.99	AAAA
ATOM	731	0	ASN		91	24.582	52.626	32.726	1.00 44.32	AAAA
MOTA	732	N	SER	A 5	92	24.100	50.812	31.508	1.00 42.43	AAAA
ATOM	733	CA	SER	ΑS	92	24.255	51.557	30.254	1.00 42.25	AAAA
ATOM	734	CB	SER	ΑS	92	25.677	52.125	30.172	1.00 42.40	AAAA
ATOM	735	OG	SEF	R A	92	26.646	51.151	30.530	1.00 39.37	AAAA
ATOM	736	C	SEF	R S	92	23.942	50.815	28.948	1.00 42.54	AAAA
ATOM	737	0	SEF		92	24.383	51.247	27.880	1.00 42.23	AAAA
MOTA	738	N	TYF		93	23.171	49.727	29.023		AAAA
ATOM	739	CA	TYF		93	22.839	48.947	27.832	1.00 38.24	AAAA
ATOM	740	CB	TYF		93	23.841	47.801	27.684	1.00 36.16	AAAA
ATOM	741	CG	TYF		93	25.268	48.261	27.565	1.00 35.11	AAAA
ATOM	742		TYF.		93	26.192	47.980		1.00 35.11	AAAA
ATOM	742		. 116 . TYF			27.523	47.960		1.00 35.76	AAAA
										AAAA
ATOM	744		TYF				48.979			AAAA
MOTA	745	CE2	TYF	· A	93	27.027	49.407	26.325	1.00 35.53	AAAA

ATOM	746	CZ	TYR A	93	27.	934	49.112	27.337	1.00	35.78	AAAA
ATOM	747	OH	TYR A	93	29.		49.526	27.232	1.00	34.90	AAAA
ATOM	-748	С	TYR A	93	21.	418	48.377	27.763	1.00	37.14	AAAA
ATOM	749	0	TYR A	. 93	20.	928	47.791	28.728	1.00	38.33	AAAA
MOTA	750	N	ALA A	94	20.	769	48.537	26.608	1.00	35.58	AAAA
ATOM	751	CA	ALA A	94	19.	411	48.013	26.381	1.00	33.66	AAAA
ATOM	752	CB	ALA A	94	18.	623	48.956	25.469	1.00	32.41	AAAA
ATOM	753	С	ALA A	94	19.	504	46.622	25.744	1.00	31.83	AAAA
ATOM	754	0	ALA A	94	18.	567	45.834	25.773	1.00	31.41	AAAA
ATOM	755	N	LEU A	95	20.	657	46.342	25.161	1.00	29.75	AAAA
ATOM	756	CA	LEU A	95	. 20.	911	45.074	24.531	1.00	27.85	AAAA
ATOM	757	CB	LEU A	95	20.	545	45.126	23.050	1.00	25.92	AAAA
ATOM	758	CG	LEU A	95	20.	711	43.789	22.319	1.00	25.61	AAAA
ATOM	759	CD1	LEU A	95	19.	491	42.913	22.558	1.00	25.08	AAAA
ATOM	760	CD2	LEU A	95	20.	901	44.033	20.839	1.00	25.24	AAAA
ATOM	761	С	LEU A	95		399	44.775	24.690	1.00	28.58	AAAA
ATOM	762	0	LEU A	95	23.	259	45.544	24.256	1.00	27.58	AAAA
MOTA	763	N	ALA A	96		689	43.654	25.331	1.00	27.85	AAAA
MOTA	764	CA	ALA A	96		047	43.225	25.545	1.00	28.01	AAAA
ATOM	765	СВ	ALA A	96		382	43.321	26.998		28.68	AAAA
ATOM	766	c	ALA A	96		081	41.787	25.095		29.54	AAAA
ATOM	767	ō	ALA A	96		260	40.986	25.530	1.00	30.65	AAAA
MOTA	768	N	VAL A	97		017	41.460	24.214		30.69	AAAA
MOTA	769	CA	VAL A	97		149	40.102	23.700		31.69	AAAA
ATOM	770	CB	VAL A	97		672	40.040	22.253		30.69	AAAA
ATOM	771		VAL A	97		861	38.641	21.701		32.42	AAAA
ATOM	772		VAL A	97		215	40.460	22.185		29.15	AAAA
ATOM	773	C	VAL A	97		607	39.672	23.772		33.35	AAAA
ATOM	774	0	VAL A	97		391	40.008	22.892		34.41	AAAA
ATOM	775	N	LEU A	98		970	38.912	24.803		35.33	AAAA
ATOM	776	CA	LEU A	98		366	38.507	24.970		37.05	AAAA
ATOM	777	CB	LEU A	98		067	39.530	25.850		36.35	AAAA
ATOM	778	CG	LEU A	98		399	39.649	27.214		36.44	AAAA
ATOM	779		LEU A	98		343	40.340	28.150		39.31	AAAA
	780		LEU A	98		099	40.340	27.110		34.27	AAAA
ATOM						656	37.111	25.532		37.15	AAAA
ATOM	781	C	LEU A	98			36.497	26.164		37.68	AAAA
ATOM	782 783	O	LEU A SER A	98 99		812 882	36.647	25.297		37.89	AAAA
ATOM ATOM	784	N CA	SER A	99		381	35.347	25.752		39.28	AAAA
ATOM	785	CB	SER A	99		566	35.345	27.270		39.69	AAAA
ATOM	786	OG	SER A	99		755	36.015	27.640		41.78	AAAA
	787	C	SER A	99		581	34.111	25.368		39.72	AAAA
ATOM ATOM	788	0	SER A	99		252	33.297	26.231		40.19	AAAA
ATOM	789	N	ASN A			299	33.942	24.082		39.73	AAAA
ATOM	790	CA	ASN A			533	32.788	23.641		40.30	AAAA
ATOM	791	CB	ASN A			406	33.241	22.722		38.71	AAAA
ATOM	792	CG	ASN A			452	34.171	23.409		38.04	AAAA
ATOM	793		ASN A			653	33.749	24.238		38.80	AAAA
ATOM	794		ASN A			538	35.454	23.085		37.28	AAAA
ATOM	795	C	ASN A			364	31.727	22:932		42.18	AAAA
ATOM	796	0	ASN A			448	31.722	21.706		41.45	AAAA
ATOM	797	N	TYR A			975	30.831	23.703		44.15	AAAA
ATOM	798	CA	TYR A			758	29.754	23.122		46.78	AAAA
ATOM	799	CB	TYR A			777	30.315	22.144		45.43	AAAA
ATOM	800	CG	TYR A			922	31.045	22.776		45.60	AAAA
ATOM	801		TYR A			153	30.418	22.950		44.05	AAAA
ATOM	802		TYR A			236	31.104	23.461		44.75	AAAA
ATOM	803		TYR A			801	32.384	23.146		45.05	AAAA
ATOM	804		TYR A			882	33.082	23.662		44.69	AAAA
ATOM	805	CZ	TYR A			098	32.438	23.812		45.02	AAAA
ATOM	806	OH	TYR A			191	33.129	24.281		46.14	AAAA
	807	C				442	28.844	24.130		49.76	AAAA
ATOM	808		TYR A			094	29.300	25.065		50.57	AAAA
ATOM	809	О N	TYR A			278	27.543	23.903		53.43	AAAA
ATOM		N	ASP A				26.455	24.731		55.07	AAAA
ATOM	810	CA	ASP A			812	25.128	24.731		57.28	AAAA
MOTA	811	CB	ASP A			319					AAAA
MOTA	812	CG	ASP A			684	23.926	24.976		60.32	AAAA AAAA
ATOM	813		ASP A			497.	22.783	24.490		60.66	AAAA AAAA
ATOM	814		ASP A			150	24.119	26.119		62.13	AAAA AAAA
ATOM	815	C	ASP A			342	26.438	24.835		55.45	
ATOM	816	0	ASP A			975	25.450	24.455		55.96	AAAA
ATOM	817	N	ALA A			937	27.511	25.357		55.49	AAAA
ATOM	818	CA	ALA A			397	27.590	25.480		55.53	AAAA
ATOM	819	CB	ALA A			885	26.683	26.604		55.63	AAAA
MOTA	820	С	ALA A	103	36.	033	27.168	24.160	1.00	55.47	AAAA

ATOM	821	0	ALA	А	103	36.	154	26.025	23.99	7 1.	00	53.87	AAAA
ATOM	822	N	ASN			36.0		28.108	23.22	4 1.	00	57.03	AAAA
MOTA	823	CA	ASN			36.	544	27.871	21.89			58.71	AAAA
MOTA	824	CB	ASN			38.3		27.935	21.91			61.29	AAAA
MOTA	825	CG	ASN			38.		29.366	21.99			64.22	AAAA
ATOM ATOM	826 827		ASN ASN			38.: 39.:		30.213	21.16 23.00			65.07 65.35	дада адад
ATOM	828	C	ASN			36.		26.542	21.31			57.81	AAAA
ATOM	829	ō	ASN			36.		25.514	21.52			59.57	AAAA
ATOM	830	N			105	35.		26.573	20.58			55.91	AAAA
ATOM	831	CA	LYS	A	105	34.	518	25.380	19.95	6 1	.00	54.19	AAAA
MOTA	832	CB			105	34.		24.249	20.97			54.32	AAAA
ATOM	833	CG			105	33.		22.938	20.38			54.09	AAAA
ATOM ATOM	834 835	CD			105 105	33.° 35.		21.865 21.542	21.45			54.03 53.94	AAAA AAAA
ATOM	836	NZ			105	34.		20.497	23.16			54.04	AAAA
ATOM	837	C			105	33.		25.695	19.37			53.14	AAAA
ATOM	888	0			105	33.		26.131	18.22		.00	53.20	AAAA
ATOM	839	N	THR	Α	106	32.	129	25.469	20.18	0 1	.00	51.70	AAAA
ATOM	840	CA			106	30.		25.706	19.77			50.34	AAAA
ATOM	841	CB			106	29.		24.546	20.22			51.16	AAAA
MOTA	842				106	30.		24.052	21.50 19.19			51.81 50.99	AAAA AAAA
ATOM ATOM	843 844	C			106 106	29. 30.		23.425 26.995	20.37			49.20	AAAA
ATOM	845	Ö			106	30.		27.540	21.29			49.47	AAAA
ATOM	846	N			107	29.		27.468	19.85			47.30	AAAA
ATOM	847	CA	GLY	Α	107	28.		28.693	20.34		.00	44.60	AAAA
MOTA	848	С	GLY	Α	107	27.	376	29.234	19.47	2 1	.00	42.43	AAAA
MOTA	849	0			107	26.		28.581	18.53			42.85	AAAA
ATOM	850	N			108	26.		30.433	19.79			40.49	AAAA
ATOM	851 852	CA CB			108 108		832 394	31.077 32.367	19.04 19.73			37.67 36.76	AAAA AAAA
ATOM ATOM	853	CG			108		414	33.227	18.93			34.90	AAAA
ATOM	854				108		123	32.464	18.71			36.26	AAAA
ATOM	855				108		136	34.506	19.68		.00	35.04	AAAA
ATOM	856	C	LEU	A	108		317	31.406	17.64			36.67	AAAA
MOTA	857	0			108		351	32.052	17.48			35.35	AAAA
ATOM	858	N			109		554	30.968	16.64			35.68	AAAA
ATOM ATOM	859 860	CA CB			109		894 906	31.194 29.858	15.24 14.48			34.01	AAAA AAAA
ATOM	861	CG			109		106	29.984	12.98			32.65	AAAA
MOTA	862	CD			109		961	28.636	12.29			32.15	AAAA
ATOM	863	CE	LYS	A	109	26.	085	28.771	10.79	90 0	.01	31.80	AAAA
ATOM	864	NZ			109		062	29.696	10.23			31.82	AAAA
ATOM	865	C			109		971	32.174	14.50			32.32	AAAA
ATOM ATOM	866 867	И О			109		442 665	33.020 32.063	13.76		.00	31.48 31.17	AAAA AAAA
ATOM	868	CA			110		706	32.930	14.0			30.16	AAAA
ATOM	869				110		964	32.120	12.9			29.58	AAAA
MOTA	870	CG			110	21.	738	30.637	13.3		.00	28.34	AAAA
MOTA	871	CD			110		633	29.717	12.0			29.05	AAAA
MOTA	872				110		625	29.630				27.77	AAAA
ATOM	873	C C			110		570 728	29.067 33.615	11.8			27.06 29.15	AAAA AAAA
ATOM ATOM	874 875	0			110		133	32.974	15.8			28.91	AAAA
ATOM	876	N			111		577	34.930				29.75	AAAA
ATOM	877	CA			111		700	35.760			.00	29.37	AAAA
ATOM	878	CB	LEU	JP	111	21.	593	36.736	16.4			28.95	AAAA
ATOM	879	CG			111		203	37.350				29.26	AAAA
ATOM	880				111		664	36.292				28.31 27.87	АААА АААА
ATOM ATOM	881 882	CD2			111		424	38.032 36.515	18.4			29.14	AAAA
ATOM	883	Ö			111		685	37.727				29.76	AAAA
ATOM	884	N			112		774	35.784				29.32	AAAA
ATOM	885	CD			112		521	34.410	14.6			30.38	AAAA
ATOM	886	CA			112		708	36.208	13.2			29.44	AAAA
ATOM	887	СВ			112		864	34.945	13.0			29.55	AAAA
ATOM	888	CG			112		.770	33.835	13.4			30.58	AAAA
ATOM	889 890	C			112		812	37.382				30.66 31.52	AAAA AAAA
ATOM ATOM	890 891	N			A 112 A 113		. 6 <b>1</b> 3	37.332 38.433				31.32	AAAA
ATOM	892	CA			113		. 521	39.569				32.48	AAAA
ATOM	893	СВ			113		.237	40.363				34.12	AAAA
MOTA	894	CG			113		814	39.990	17.1	33 1	00	34.12	AAAA
ATOM	895	SD	ME'	г ?	113	18	.142	40.231	18.3	02	00	34.37	AAAA

ATOM	896	CĒ	MET	А	113		18.540	38.605	18.527	1.00 31.86	AAAA
ATOM	897	С	MET	Α	113		16.122	40.508	13.496	1.00 32.25	AAAA
ATOM	898	0	MET	A	113		16.273	41.725	13.604	1.00 32.96	AAAA
MOTA	899	N	ARG	Α	114		15.584	39.936	12.429	1.00 30.75	AAAA
ATOM	900	CA	ARG				15.187	40.699	11.258	1.00 29.68	AAAA
ATOM	901	CB	ARG				14.975	39.761	10.075	1.00 29.99	AAAA
ATOM	902	CG	ARG				13.609	39.120	10.002	1.00 26.27	AAAA
ATOM	903	CD	ARG				13.308	38.244	11.189	1.00 25.95	AAAA
ATOM	904	NE	ARG				12.371	37.210	10.788	1.00 27.20	дада адад
ATOM	905	CZ	ARG				12.675	36.213	9.959	1.00 28.14 1.00 26.67	AAAA
ATOM	906		ARG				13.904	36.111	9.455 9.603	1.00 25.33	AAAA
MOTA	90 <b>7</b> 908	NH2 C	ARG ARG				11.736 13.964	35.346 41.590	11.397	1.00 29.51	AAAA
ATOM ATOM	908	0	ARG				13.412	42.032	10.391	1.00 29.74	AAAA
ATOM	910	N	ASN				13.526	41.850	12.621	1.00 28.25	AAAA
ATOM	911	CA	ASN				12.382	42.735	12.815	1.00 28.00	AAAA
ATOM	912	CB	ASN				11.153	41.935	13.198	1.00 25.20	AAAA
ATOM	913	CG	ASN				10.370	41.502	12.007	1.00 24.22	AAAA
ATOM	914	OD1	ASN				9.768	40.434	11.998	1.00 25.29	AAAA
ATOM	915	ND2	ASN	Α	115		10.361	42.334	10.984	1.00 24.89	AAAA
ATOM	916	С	ASN	Α	115		12.677	43.801	13.861	1.00 29.87	AAAA
ATOM	917	0	ASN	A	115		11.947	44.780	14.006	1.00 30.09	AAAA
ATOM	918	N	LEU				13.764	43.597	14.585	1.00 31.01	AAAA
ATOM	919	CA	LEU				14.181	44.537	15.596	1.00 32.63	AAAA
ATOM	920	CB	LEU				15.425	44.003	16.296	1.00 31.13	AAAA
ATOM	921	CG	LEU				15.995	44.889	17.383	1.00 28.76	AAAA
ATOM	922	CD1					14.988	44.969	18.504	1.00 27.83	AAAA
ATOM	923		LEU				17.319	44.325	17.860	1.00 29.92	AAAA AAAA
ATOM	924	C	LEU				14.503	45.810 45.863	14.830 14.089	1.00 34.82 1.00 36.01	AAAA
ATOM	925	N N	LEU GLN				15.484 13.689	46.842	14.009	1.00 36.10	AAAA
ATOM ATOM	926 927	CA	GLN				13.944	48.064	14.252	1.00 37.88	AAAA
ATOM	928	CB	GLN				12.828	48.274	13.234	1.00 37.50	AAAA
ATOM	929	CG	GLN			•	12.829	47.184	12.196	1.00 40.04	AAAA
ATOM	930	CD	GLN				11.779	47.377	11.148	1.00 42.95	AAAA
ATOM	931	OE1					11.586	48.484	10.646	1.00 45.75	. AAAA
ATOM	932	NE2	GLN	Α	117		11.092	46.296	10.792	1.00 43.71	AAAA
ATOM	933	С	GLN	Α	117		14.154	49.321	15.070	1.00 38.45	AAAA
MOTA	934	0	GLN	Α	117		14.638	50.320	14.547	1.00 39.48	AAAA
MOTA	935	N	GLU	Α	118		13.823	49.265	16.353	1.00 38.74	AAAA
MOTA	936	CA	GLU				13.971	50.427	17.210	1.00 38.23	AAAA
MOTA	937	CB	GLU				12.683	51.251	17.164	1.00 38.15	AAAA
ATOM	938	CG	GLU				12.649	52.448	18.097	1.00 39.43	AAAA
ATOM	939	CD	GLU				13.610	53.542	17.682	1.00 41.05 1.00 42.73	AAAA AAAA
MOTA	940		GLU				13.502	54.009	16.529 18.505	1.00 42.73	AAAA
ATOM	941	OE2 C	GLU				14.464 14.308	53.937 50.082	18.660	1.00 38.25	AAAA
ATOM ATOM	942 943	0	GLU				13.678	49.212	19.278	1.00 38.68	AAAA
ATOM	944	N	ILE				15.320	50.768	19.181	1.00 36.89	AAAA
ATOM	945	CA	ILE				15.764	50.628	20.563	1.00 35.34	AAAA
ATOM	946	СВ	ILE				17.229	50.153	20.661	1.00 36.18	AAAA
ATOM	947		ILE				17.670	50.107	22.111	1.00 35.24	. AAAA
ATOM	948	CG1	ILE	Α	119		17.374	48.767	20.034	1.00 37.14	. дааа
ATOM	949	CD1	ILE	A	119		18.776	48.187	20.146	1.00 36.91	AAAA
ATOM	950	C	ILE				15.669	52.052	21.101	1.00 34.22	AAAA
ATOM	951	0			119		16.617	52.831	21.005	1.00 32.90	AAAA
ATOM	952	N	LEU				14.506	52.388	21.646	1.00 33.33	AAAA
ATOM	953	CA			120		14.255	53.716	22.178	1.00 33.63	AAAA
ATOM	954	CB	LEU				12.908	53.713	22.919	1.00 31.58	AAAA AAAA
ATOM	955	CG			120		11.713	53.218	22.058 22.855	1.00 30.79	AAAA
ATOM	956		LEU				10.426 11.513	53.174 54.118	20.871	1.00 29.83	AAAA
MOTA	957				120		15.407	54.229	23.055	1.00 35.35	AAAA
ATOM	958 959	C			120		16.473	54.581	22.540	1.00 35.42	AAAA
ATOM	960	N	HIS				15.216	54.277	24.366	1.00 37.12	AAAA
ATOM ATOM	961	CA			121		16.282	54.756	25.251	1.00 37.12	AAAA
ATOM	962	CB			121		15.686	55.154	26.623	1.00 39.82	AAAA
ATOM	963	CG			121		14.407	55.942	26.541	1.00 41.46	AAAA
MOTA	964				121 -		14.131	57.233	26.846	1.00 43.26	AAAA
ATOM	965		HIS				13.224	55.404	26.077	1.00 42.51	AAAA
ATOM	966		HIS				12.279	56.329	26.096	1.00 42.63	AAAA
ATOM	967	NE2	HIS	Α	121		12.802	57.449	26.557	1.00 42.96	. AAAA
ATOM	968	С			121		17.295	53.607	25.422	1.00 38.60	AAAA
MOTA	969	0			121		16.918	52.452	25.257	1.00 39.83	AAAA
MOTA	970	N	GLY	A	122		18.567	53.908	25.713	1.00 38.05	AAAA

ATOM	971	CA	GLY A	122	19.564	52.852	25.937	1.00 36.52	AAAA
MOTA	972		GLY A		20.525	52.413	24.831	1.00 35.69	AAAA
ATOM	973		GLY A		20.175	52.400	23.657	1.00 35.02	AAAA
ATOM	974		ALA A		21.741	52.018	25.206	1.00 35.54	AAAA
MOTA	975		ALA A		22.745	51.593	24.220	1.00 35.46 1.00 35.63	AAAA AAAA
ATOM	976		ALA A		24.096	52.193	24.570		AAAA
ATOM	977		ALA A		22.891	50.075	24.048 24.717	1.00 35.18	AAAA
ATOM	978		ALA A		22.214	49.302 49.661	23.147	1.00 34.77	AAAA
ATOM	979		VAL A		23.786 24.026	48.241	22.877	1.00 33.64	AAAA
ATOM ATOM	980 981		VAL A		23.438	47.845	21.500	1.00 33.47	AAAA
ATOM	982		VAL A		23.556	46.353	21.289	1.00 34.26	AAAA
ATOM	983		VAL A		21.981	48.266	21.417	1.00 32.39	AAAA
ATOM	984	C	VAL A		25.523	47.878	22.922	1.00 33.14	AAAA
ATOM	985	ō	VAL A		26.380	48.699	22.612	1.00 32.68	AAAA
MOTA	986	N	ARG A	125	25.827	46.642	23.315	1.00 32.99	AAAA
ATOM	987	CA	ARG A	125	27.214	46.174	23.419	1.00 32.12	AAAA
MOTA	988	CB	ARG A	125	27.705	46.338	24.858	1.00 30.91	AAAA
ATOM	989	CG	ARG A	125	29.027	45.679	25.174	1.00 30.31	AAAA
ATOM	990	CD	ARG A		29.440	45.966	26.613	1.00 30.90	AAAA
MOTA	991	NE	ARG A		30.263	44.903	27.186	1.00 33.10	AAAA
ATOM	992	CŻ	ARG A		31.495	44.596	26.789	1.00 34.73	AAAA AAAA
ATOM	993		ARG A		32.070	45.276	25.808	1.00 37.47	AAAA
ATOM	994		ARG A		32.153	43.598	27.368 22.995	1.00 34.41 1.00 32.55	AAAA
ATOM	995	C		A 125	27.394	44.718 43.867	23.276	1.00 32.66	AAAA
MOTA	996	0		A 125 A 126	26.550 28.500	44.446	22.311	1.00 32.00	AAAA
ATOM ATOM	997 998	N CA		A 126	28.838	43.097	21.856	1.00 33.81	AAAA
ATOM	999	CB		A 126	28.693	42.969	20.325	1.00 34.48	AAAA
MOTA	1000	CG		A 126	27.313	42.558	19.857	1.00 34.94	AAAA
ATOM	1001		PHE		26.272	43.482	19.797	1.00 34.51	AAAA
ATOM	1002		PHE .		27.057	41.242	19.478	1.00 34.48	AAAA
MOTA	1003	CE1	PHE .	A 126	24.999	43.102	19.366	1.00 33.90	AAAA
ATOM	1004	CE2	PHE .	A 126	25.788	40.855	19.048	1.00 34.28	AAAA
ATOM	1005	CZ	PHE	A 126	24.758	41.789	18.992	1.00 33.85	AAAA
MOTA	1006	C		A 126	30.290	42.786	22.232	1.00 34.31	AAAA
MOTA	1007	0		A 126	31.115	43.695	22.353	1.00 35.00	AAAA
ATOM	1008	N		A 127	30.590	41.503	22.422	1.00 34.46	AAAA AAAA
ATOM	1009	CA		A 127	31.946	41.042	22.742 23.866	1.00 34.03 1.00 35.24	AAAA
ATOM	1010	CB		A 127	32.572 31.866	41.880 41.741	25.080	1.00 39.63	AAAA
MOTA	1011 1012	OG C		A 127 A 127	32.005	39.558	23.108	1.00 31.55	AAAA
ATOM ATOM	1012	0		A 127	31.211	39.068	23.906	1.00 29.87	AAAA
ATOM	1014	И		A 128	32.962	38.864	22.500	1.00 30.22	AAAA
ATOM	1015	CA		A 128	33.195	37.438	22.689	1.00 30.10	AAAA
MOTA	1016	CB		A 128	33.532	37.139	24.153	1.00 31.19	AAAA
ATOM	1017	CG	ASN	A 128	34.819	37.827	24.617	1.00 32.24	AAAA
ATOM	1018	OD1	ASN	A 128	34.783	38.733	25.454	1.00 34.03	AAAA
ATOM	1019	ND2	ASN	A 128	35.957	37.398		1.00 31.76	AAAA
MOTA	1020	С		A 128	32.055	36.537	22.198	1.00 30.09	AAAA
ATOM	1021	0		A 128	31.381		22.971	1.00 28.96	AAAA AAAA
ATOM	1022	N		A 129	31.860		20.885	1.00 30.76 1.00 30.82	AAAA
ATOM	1023	CA		A 129	30.857 29.670		19.766	1.00 30.29	AAAA
ATOM ATOM	1024 1025	CB CG		A 129 A 129	29.047		20.905	1.00 30.62	AAAA
ATOM	1025			A 129	28.534		21.847		AAAA
ATOM	1027			A 129	29.086		20.826	1.00 29.57	AAAA
MOTA	1028	C		A 129	31.582			1.00 31.45	AAAA
MOTA	1029			A 129	31.215		17.837	1.00 32.78	AAAA
ATOM	1030			A 130	32.624	34.407	19.138		AAAA
ATOM	1031	CD	PRO	A 130	33.289	34.048	20.396		AAAA
ATOM	1032	CA	PRO	A 130	33.376	33.884	18.002		AAAA
ATOM	1033	CB	PRO	A 130	34.607				AAAA
MOTA	1034			A 130	34.706				AAAA
ATOM	1035			A 130	32.634				AAAA
ATOM	1036			A 130	33.219				аааа аааа
ATOM	1037			A 131	31.354				AAAA AAAA
ATOM	1038			A 131	30.585				AAAA
ATOM	1039			A 131	30.143 29.377				AAAA
ATOM ATOM	1040 1041			A 131 A 131	28.723				AAAA
ATOM	1041			A 132	29.095				AAAA
ATOM	1042			A 132	27.965				AAAA
ATOM	1044			A 132	27.874				AAAA
MOTA	1045			A 132	26.587				AAAA

ATOM	1046	CD1	LEU A	132	25.393	36.041	16.562	1.00 32.65	AAAA
ATOM	1047		LEU A		26.607	38.097	17.241	1.00 33.69	AAAA
		CDZ	LEU A		28.165	35.222	14.127	1.00 39.24	AAAA
ATOM	1048							1.00 33.24	AAAA
ATOM	1049	0	LEU A		29.201	35.772	13.766		AAAA
ATOM	1050	N	CYS A		27.188	34.892	13.282	1.00 41.16	
ATOM	1051	CA	CYS A		27.264	35.191	11.848	1.00 41.90	AAAA
ATOM	1052	С	CYS A		26.405	36.369	11.421	1.00 41.88	AAAA
ATOM	1053	0	CYS A		25.311	36.582	11.941	1.00 41.43	AAAA
ATOM	1054	CB	CYS A	133	26.815	34.002	10.999	1.00 42.67	AAAA
ATOM	1055	SG	CYS A	133	28.000	32.654	10.741	1.00 47.30	AAAA
ATOM	1056	N	ASN A	134	26.918	37.118	10.454	1.00 42.64	AAAA
ATOM	1057	CA	ASN A	134	26.204	38.242	9.874	1.00 44.09	AAAA
MOTA	1058	CB	ASN A	134	25.002	37.724	9.077	1.00 44.56	AAAA
MOTA	1059	CG	ASN A	134	25.404	37.075	7.770	1.00 45.17	AAAA
ATOM	1060		ASN A		25.495	35.852	7.674	1.00 44.80	AAAA
ATOM	1061		ASN A		25.661	37.900	6.754	1.00 44.86	AAAA
ATOM	1062	C	ASN A		25.718	39.373	10.764	1.00 44.64	AAAA
ATOM	1063	Ö	ASN A		24.926	40.195	10.306	1.00 44.22	AAAA
							12.017	1.00 45.70	AAAA
ATOM	1064	N	VAL A		26.155	39.439			AAAA
ATOM	1065	CA	VAL A		25.674	40.524	12.870	1.00 45.89	
ATOM	1066	CB	VAL A		25.519	40.068	14.343	1.00 46.97	AAAA
ATOM	1067		VAL A		25.587	41.260	15.292	1.00 48.48	AAAA
ATOM	1068		VAL A		24.164	39.384	14.508	1.00 46.88	AAAA
ATOM	1069	С	VAL A	135	26.581	41.732	12.745	1.00 44.55	AAAA
ATOM	1070	0	VAL A	135	26.204	42.847	13.081	1.00 44.11	AAAA
MOTA	1071	N	GLU A	136	27.772	41.496	12.225	1.00 43.51	AAAA
ATOM	1072	CA	GLU A	136	28.733	42.557	11.996	1.00 43.67	AAAA
ATOM	1073	CB	GLU A	136	30.140	41.963	11.975	1.00 45.50	AAAA
ATOM	1074	CG	GLU A	136	30.186	40.546	11.410	1.00 47.80	AAAA
ATOM	1075	CD	GLU A		29.509	40.422	10.049	1.00 49.63	AAAA
ATOM	1076	OE1	GLU A		30.186	40.632	9.018	1.00 48.59	AAAA
ATOM	1077	OE2			28.292	40.125	10.014	1.00 50.58	AAAA
ATOM	1078	C	GLU A		28.410	43.191	10.639	1.00 42.78	AAAA
ATOM	1079	ō	GLU A		29.254	43.247	9.754	1.00 44.13	AAAA
	1080	И	SER A		27.186	43.668	10.465	1.00 41.95	AAAA
MOTA						44.260	9.191	1.00 41.46	AAAA
ATOM	1081	CA	SER A		26.812				AAAA
ATOM	1082	CB	SER A		26.464	43.161	8.199	1.00 41.19	
ATOM	1083	OG	SER A		25.206	42.596	8.522	1.00 40.22	AAAA
ATOM	1084	С	SER A		25.611	45.178	9.341	1.00 41.40	AAAA
ATOM	1085	0	SER A		25.389	46.076	8.528	1.00 40.95	AAAA
ATOM	1086	N	ILE A		24.824	44.933	10.377	1.00 40.68	AAAA
ATOM	1087	CA	ILE A		23.652	45.738	10.625	1.00 40.30	AAAA
ATOM	1088	CB	ILE A	138	22.897	45.223	11.859	1.00 40.33	AAAA
ATOM	1089	ÇG2	ILE A	138	21.850	46.234	12.314	1.00 41.04	AAAA
ATOM	1090	CG1	ILE A	138	22.275	43.871	11.541	1.00 38.98	AAAA
ATOM	1091	CD1	ILE A	138	23.291	42.781	11.428	1.00 39.86	AAAA
ATOM	1092	C	ILE A	138	24.038	47.194	10.851	1.00 40.77	AAAA
ATOM	1093	0	ILE A	138	24.973	47.486	11.597	1.00 39.73	AAAA
ATOM	1094	N	GLN A	139	23.323	48.095	10.175	1.00 41.55	AAAA
ATOM	1095	CA	GLN A		23.528	49.537	10.316	1.00 40.92	AAAA
ATOM	1096	СВ	GLN A		22.915	50.297	9.132	1.00 40.20	AAAA
ATOM	1097	CG	GLN A		23.745	50.270	7.844	1.00 40.56	AAAA
ATOM	1098	CD	GLN A		25.097	50.938	8.007	0.01 40.38	AAAA
ATOM	1099		GLN A		25.182	52.124	8.326	0.01 40.37	AAAA
ATOM	1100		GLN A		26.163	50.177	7.787	0.01 40.37	AAAA
ATOM	1101	C	GLN A		22.784	49.889	11.596	1.00 40.86	AAAA
	1101	0	GLN A		21.560	49.933	11.610	1.00 40.96	AAAA
MOTA							12.674	1.00 40.75	AAAA
ATOM	1103	N	TRP A		23.523	50.118			
ATOM	1104	CA	TRP A		22.897	50.418	13.950	1.00 40.84	AAAA
ATOM	1105	CB	TRP A		23.870	50.111	15.103	1.00 40.81	AAAA
ATOM	1106	CG	TRP A		24.227	48.624	15.257	1.00 40.56	AAAA
ATOM	1107		TRP A		23.429	47.610	15.874	1.00 39.33	AAAA
MOTA	1108		TRP A		24.122	46.389	15.742	1.00 37.02	AAAA
MOTA	1109	CE3	TRP A	140	22.192	47.616	16.526	1.00 40.37	AAAA
MOTA	1110		TRP A		25.345	47.988	14.792	1.00 40.67	AAAA
ATOM	1111		TRP A		25.288	46.646	15.079	1.00 37.63	AAAA
ATOM	1112		TRP A		23.624	45.193	16.230	1.00 38.31	AAAA
ATOM	1113		TRP A		21.695	46.420	17.015	1.00 41.10	AAAA
ATOM	1114		TRP A		22.411	45.225	16.864	1.00 40.34	AAAA
ATOM	1115	C	TRP A		22.357	51.847	14.064	1.00 41.96	AAAA
ATOM	1116	Ö	TRP A		21.629	52.155	15.008	1.00 41.98	AAAA
ATOM	1117	N	ARG A		22.692	52.711	13.106	1.00 42.56	AAAA
ATOM	1118	CA	ARG A		22.204	54.089	13.127	1.00 42.46	AAAA
	1119	CB	ARG A		22.920	54.937	12.086	1.00 44.33	AAAA
ATOM	1119	CG	ARG A		24.409	55.095	12.283	1.00 44.35	AAAA
ATOM	1140	CG	A DAA		24.409	JJ. 09J		1.00 40.20	

MOTA	1121	CD	ARG A 141	25.003	55.897	11.126	1.00 52.40	AAAA
ATOM	1122	NE	ARG A 141	24.427	55.476	9.844	1.00 55.80	AAAA
MOTA	1123	CZ	ARG A 141	24.974	55.704	8.652	1.00 56.52	AAAA
ATOM	1124		ARG A 141	26.128	56.356	8.560	1.00 57.80	дада дада
MOTA	1125 1126		ARG A 141 ARG A 141	24.368 20.712	55.276 54.126	7.549 12.827	1.00 56.43 1.00 42.37	AAAA
ATOM ATOM	1127	С 0	ARG A 141	20.029	55.098	13.142	1.00 41.87	AAAA
ATOM	1128	N	ASP A 142	20.025	53.062	12.209	1.00 42.16	AAAA
ATOM	1129	CA	ASP A 142	18.805	52.964	11.854	1.00 42.72	AAAA
ATOM	1130	CB	ASP A 142	18.640	52.058	10.626	1.00 43.43	AAAA
MOTA	1131	CG	ASP A 142	17.208	52.022	10.094	1.00 44.06	AAAA
MOTA	1132		ASP A 142	16.926	52.697	9.080	1.00 43.03	AAAA
MOTA	1133		ASP A 142	16.366	51.314	10.687 13.025	1.00 44.12 1.00 43.71	AAAA AAAA
atom atom	1134 1135	C 0	ASP A 142 ASP A 142	17.997 16.768	52.412 52.440	13.023	1.00 43.71	AAAA
ATOM	1136	N	ILE A 143	18.681	51.907	14.048	1.00 44.70	AAAA
ATOM	1137	CA	ILE A 143	17.977	51.362	15.205	1.00 46.13	AAAA
ATOM	1138	CB	ILE A 143	18.335	49.866	15.458	1.00 46.01	AAAA
MOTA	1139		ILE A 143	17.669	49.386	16.749	1.00 45.83	AAAA
MOTA	1140		ILE A 143	17.831	49.001	14.298	1.00 45.74	AAAA
ATOM	1141		ILE A 143	18.088	47.508	14.463	1.00 44.80	AAAA AAAA
ATOM ATOM	1142 1143	С 0	ILE A 143 ILE A 143	18.165 17.177	52.140 52.521	16.512 17.138	1.00 46.77 1.00 46.85	AAAA
ATOM	1143	И	VAL A 144	19.408	52.381	16.928	1.00 47.51	AAAA
ATOM	1145	CA	VAL A 144	19.641	53.105	18.181	1.00 49.06	AAAA
ATOM	1146	CB	VAL A 144	20.991	52.711	18.826	1.00 47.81	AAAA
MOTA	1147		VAL A 144	21.082	51.217	18.941	1.00 48.72	AAAA
MOTA	1148		VAL A 144	22.137	53.230	18.017	1.00 48.22	AAAA
MOTA	1149	C	VAL A 144	19.581	54.624	18.026	1.00 50.45	AAAA AAAA
ATOM ATOM	1150 1151	O N	VAL A 144 SER A 145	20.184 18.844	55.195 55.272	17.115 18.924	1.00 50.50 1.00 51.55	AAAA
ATOM	1152	CA	SER A 145	18.691	56.718	18.881	1.00 53.05	AAAA
ATOM	1153	СВ	SER A 145	17.690	57.180	19.931	1.00 53.22	AAAA
ATOM	1154	OG	SER A 145	16.374	56.850	19.529	1.00 56.10	AAAA
ATOM	1155	C	SER A 145	19.990	57.478	19.054	1.00 54.16	AAAA
ATOM	1156	0	SER A 145	20.860	57.095	19.836	1.00 54.29	AAAA
ATOM	1157	N	SER A 146	20.095	58.567	18.305 18.303	1.00 55.41 1.00 56.46	AAAA AAAA
MOTA MOTA	1158 1159	CA CB	SER A 146 SER A 146	21.262 20.831	59.432 60.817	17.853	1.00 56.53	AAAA
ATOM	1160	OG	SER A 146	19.602	61.157	18.467	1.00 57.63	AAAA
ATOM	1161	C	SER A 146	21.994	59.531	19.633	1.00 57.73	AAAA
MOTA	1162	0	SER A 146	23.199	59.284	19.711	1.00 57.49	AAAA
MOTA	1163	N	ASP A 147	21.245	59.882	20.673	1.00 58.99	AAAA
MOTA	1164	CA	ASP A 147 ASP A 147	21.764 20.589	60.075 60.183	22.023 22.993	1.00 60.48 1.00 63.24	АААА АААА
ATOM ATOM	1165 1166	CB CG	ASP A 147	19.334	60.703	22.320	1.00 66.22	AAAA
ATOM	1167	OD1		19.454	61.612	21.474	1.00 67.52	AAAA
ATOM	1168	OD2	2 ASP A 147	18.228	60.210	22.636	1.00 67.59	AAAA
ATOM	1169	С	ASP A 147	22.781	59.078	22.582	1.00 60.49	AAAA
ATOM	1170	0	ASP A 147	23.960	59.405	22.745	1.00 59.76	AAAA
ATOM	1171	N	PHE A 148	22.324 23.192	57.868 56.850	22.890 23.479	1.00 60.96 1.00 60.60	AAAA AAAA
ATOM ATOM	1172 1173	CA CB	PHE A 148 PHE A 148	22.342	55.773	24.152	1.00 60.67	AAAA
ATOM	1174	CG	PHE A 148	21.029	56.281		1.00 61.46	AAAA
ATOM	1175		PHE A 148	19.908	56.297	23.844	1.00 61.50	AAAA
ATOM	1176	CD	2 PHE A 148	20.922	56.789		1.00 62.22	AAAA
MOTA	1177		1 PHE A 148	18.697	56.812	24.293	1.00 62.32	AAAA
MOTA	1178		2 PHE A 148	19.711	57.310		1.00 62.67 1.00 62.70	AAAA AAAA
ATOM ATOM	1179 1180	CZ C	PHE A 148 PHE A 148	18.595 24.133	57.322 56.212			AAAA
ATOM	1181	0	PHE A 148	24.133	55.343		1.00 60.39	AAAA
MOTA	1182	N	LEU A 149	24.042	56.670		1.00 59.44	AAAA
MOTA	1183	CA		24.863	56.174			AAAA
MOTA	1184	CB		24.728	57.130			AAAA
ATOM	1185			25.271	56.642			AAAA
ATOM	1186		1 LEU A 149	24.541	55.383 57.741			AAAA AAAA
MOTA MOTA	1187 1188		2 LEU A 149 LEU A 149	25.096 26.351	55.974			AAAA
ATOM	1189		LEU A 149	26.888	54.877			AAAA
ATOM	1190		SER A 150	27.009	57.037		1.00 57.81	AAAA
ATOM	1191			28.435	56.999	21.237		AAAA
ATOM	1192			28.952	58.421			AAAA
MOTA	1193			28.269				AAAA AAAA
ATOM	1194		SER A 150	28.799				AAAA AAAA
MOTA	1195	0	SER A 150	29.981	56.017	22.772	1.00 00.40	7 T W W T

ATOM	1196	N	ASN A	151	27.794	55.616	23.134	1.00 56.59	AAAA
ATOM	1197	CA	ASN A		28.032	54.793	24.317	1.00 56.28	AAAA
ATOM	1198	CB	ASN A	_	26.924	55.009	25.357	1.00 59.47	AAAA
ATOM	1199	CG	ASN A		27.145	56.251	26.196	1.00 62.41	AAAA
ATOM	1200		ASN A		26.576	57.311	25.936	1.00 63.05	AAAA
ATOM	1201 1202	C ND2	ASN A		28.004	56.124 53.309	27.199 23.989	1.00 66.19 1.00 54.29	АААА АААА
ATOM ATOM	1202	0	ASN A		28.141 28.465	52.497	24.849	1.00 54.29	AAAA
ATOM	1204	N	MET A		27.886	52.968	22.734	1.00 51.92	AAAA
ATOM	1205	CA	MET A		27.958	51.592	22.280	1.00 50.27	AAAA
ATOM	1206	CB	MET A	152	27.516	51.511	20.826	1.00 50.89	AAAA
ATOM	1207	CG	MET A		26.132	52.052	20.579	1.00 51.62	AAAA
ATOM	1208	SD	MET A		25.432	51.283	19.128	1.00 52.87	AAAA
ATOM	1209	CE	MET A		26.719	51.638	17.928	1.00 52.21	AAAA
ATOM	1210	C	MET A		29.332	50.944	22.411	1.00 49.22	AAAA
ATOM ATOM	1211 1212	N O	MET A SER A		30.358 29.336	51.624 49.616	22.422 22.514	1.00 48.41 1.00 48.12	дада дада
ATOM	1213	CA	SER A		30.571	48.845	22.620	1.00 47.30	AAAA
ATOM	1214	СВ	SER A		30.816	48.379	24.050	1.00 46.46	AAAA
ATOM	1215	OG	SER A		32.019	47.628	24.116	1.00 45.87	AAAA
ATOM	1216	С	SER A	153	30.509	47.626	21.706	1.00 47.08	AAAA
ATOM	1217	0	SER A		30.287	46.498	22.160	1.00 46.38	AAAA
ATOM	1218	N	MET A		30.714	47.872	20.415	1.00 45.75	· AAAA
MOTA MOTA	1219	CA	MET A		30.682	46.827 47.397	19.412	1.00 44.43	AAAA AAAA
ATOM	1220 1221	CB CG	MET A		30.173 28.953	48.249	18.099 18.272	1.00 41.33	AAAA
ATOM	1222	SD	MET A		27.643	47.328	19.030	1.00 33.32	AAAA
ATOM	1223	CE	MET A		26.360	47.588	17.876	1.00 37.18	AAAA
ATOM	1224	С	MET A		32.070	46.240	19.202	1.00 45.59	AAAA
MOTA	1225	0	MET A	154	33.078	46.948	19.244	1.00 46.60	AAAA
ATOM	1226	N	ASP A		32.113	44.934	18.990	1.00 45.52	AAAA
ATOM	1227	CA	ASP A		33.358	44.233	18.749	1.00 45.29	AAAA
ATOM	1228	CB	ASP A		34.195	44.112	20.008	1.00 44.77	АААА АААА
ATOM ATOM	1229 1230	CG	ASP A		35.120 35.864	42.913 42.782	19.957 18.963	1.00 43.99 1.00 43.72	AAAA
ATOM	1231		ASP A		35.099	42.093	20.896	1.00 44.07	AAAA
ATOM	1232	C	ASP A		33.040	42.844	18.274	1.00 46.03	AAAA
ATOM	1233	0	ASP A		32.350	42.096	18.959	1.00 47.07	AAAA
ATOM	1234	N	PHE A	156	33.560	42.494	17.107	1.00 45.97	AAAA
ATOM	1235	CA	PHE A		33.315	41.183	16.557	1.00 45.74	AAAA
ATOM	1236	CB	PHE A		32.333	41.277	15.394	1.00 46.17	AAAA
MOTA MOTA	1237 1238	CG	PHE A		31.140 31.272	42.129 43.498	15.670 15.828	1.00 44.77 1.00 45.24	AAAA AAAA
ATOM	1239		PHE A		29.877	41.568	15.728	1.00 46.14	AAAA
ATOM	1240		PHE A		30.161	44.300	16.033	1.00 46.85	AAAA
ATOM	1241	CE2			28.754	42.359	15.933	1.00 48.39	AAAA
ATOM	1242	CZ	PHE A		28.896	43.732	16.086	1.00 47.98	AAAA
ATOM	1243	С	PHE A	156	34.595	40.521	16.076	1.00 45.75	AAAA
ATOM	1244	0	PHE A		35.617		15.863	1.00 46.18	AAAA
MOTA MOTA	1245 1246	N CA	GLN A		34.504 35.589	39.212 38.365	15.905 15.448	1.00 45.98 1.00 46.60	AAAA AAAA
ATOM	1247	CB	GLN A		36.664	38.210	16.540	1.00 46.14	AAAA
ATOM	1248	CG	GLN A		37.301	39.503	17.056	1.00 44.23	AAAA
ATOM	1249	CD	GLN A		38.316	39.257	18.156	0.01 44.64	AAAA
ATOM	1250	OE1	GLN A	157	39.315	38.567	17.954	0.01 44.46	AAAA
ATOM	1251		GLN A		38.064	39.825	19.331	0.01 44.46	AAAA
ATOM	1252	C	GLN A		34.849	37.045	15.274	1.00 47.54	AAAA
ATOM	1253	0	GLN A		33.899	36.783	15.998	1.00 47.69 1.00 49.06	дада дада
ATOM ATOM	1254 1255	N CA	ASN A		35.241 34.563	36.224 34.948	14.314 14.143	1.00 49.00	AAAA
ATOM	1256	CB	ASN A		33.361	35.072	13.206	1.00 51.40	AAAA
ATOM	1257	CG	ASN A		32.700	33.738	12.924	0.01 51.55	AAAA
ATOM	1258		ASN A		32.238	33.057	13.838	0.01 51.56	AAAA
ATOM	1259		ASN A		32.653	33.356	11.653	0.01 51.57	AAAA
ATOM	1260	С	ASN A		35.551	33.960	13.586	1.00 54.14	AAAA
ATOM	1261	0	ASN A		36.409	34.325	12.786	1.00 54.42	AAAA
MOTA	1262	N	HIS A		35.435	32.712	14.030	1.00 56.53	AAAA AAAA
ATOM ATOM	1263 1264	CA CB	HIS A		36.322 37.509	31.645 31.530	13.591 14.550	1.00 58.49 1.00 58.07	AAAA
ATOM	1264	CG	HIS A		38.440	32.699	14.330	0.01 58.80	AAAA
ATOM	1266		HIS A		38.758	33.646	15.395	0.01 58.87	AAAA
ATOM	1267		HIS A		39.132	33.026	13.334	0.01 58.83	AAAA
MOTA	1268		HIS A		39.833	34.125	13.543	1.00 58.99	AAAA
MOTA	1269	NE2	HIS A	159	39.623	34.523	14.786	1.00 59.59	AAAA
ATOM	1270	С	HIS A	159	35.578	30.322	13.488	1.00 59.77	AAAA

ATOM	1271	0	HIS A		36.078	29.281	13.911	1.00 60.67	AAAA
ATOM	1272	N	LEU A		34.372	30.379	12.925	1.00 60.50	AAAA
ATOM ATOM	1273 1274	CA CB	LEU A		33.538 32.094	29.195 29.489	12.728 13.146	1.00 60.49 1.00 60.18	дада дада
ATOM	1275	CG	LEU A		31.123	28.305	13.129	0.01 60.16	AAAA
ATOM	1276		LEU A		31.613	27.230	14.087	0.01 60.07	AAAA
MOTA	1277		LEU A		29.731	28.773	13.523	0.01 60.07	AAAA
ATOM	1278	С		A 160	33.586	28.816	11.242	1.00 60.97	AAAA
ATOM ATOM	1279 1280	O N	GLY A	A 160	33.198 34.073	27.707 29.752	10.848	1.00 60.92 1.00 60.46	AAAA AAAA
ATOM	1281	CA		A 161	34.178	29.524	8.998	1.00 58.69	AAAA
MOTA	1282	C		A 161	32.899	28.950	8.438	1.00 57.50	AAAA
MOTA	1283	0		A 161	32.927	27.988	7.670	1.00 57.96	AAAA
ATOM	1284	N		A 162	31.775	29.544	8.826	1.00 55.82	AAAA
ATOM ATOM	1285 1286	CA CB		A 162 A 162	30.474 29.815	29.078 28.194	8.368 9.420	1.00 53.90 1.00 54.80	AAAA AAAA
ATOM	1287	OG		A 162	28.951	28.969	10.243	1.00 55.74	AAAA
ATOM	1288	С		A 162	29.541	30.235	8.102	1.00 52.16	AAAA
MOTA	1289	0		A 162	28.325	30.046	8.076	1.00 52.13	AAAA
MOTA	1290	N		A 163	30.089	31.431 32.587	7.918 7.669	1.00 50.11 1.00 47.89	AAAA AAAA
ATOM ATOM	1291 1292	CA C		A 163 A 163	29.240 29.163	32.969	6.200	1.00 47.89	AAAA
ATOM	1293	ō		A 163	30.170	33.274	5.560	1.00 46.66	AAAA
MOTA	1294	CB		A 163	29.712	33.792	8.482	1.00 47.12	AAAA
MOTA	1295	SG		A 163	29.757	33.564	10.288	1.00 46.86	AAAA
ATOM	1296	N		A 164 A 164	27.953 27.769	32.949 33.319	5.662 4.275	1.00 47.06 1.00 47.49	AAAA AAAA
ATOM ATOM	1297 1298	CA CB		A 164	26.734	32.412	3.613	1.00 47.49	AAAA
ATOM	1299	CG		A 164	25.564	32.071	4.487	1.00 47.15	AAAA
ATOM	1300	CD	GLN .	A 164	24.694	30.995	3.870	1.00 47.25	AAAA
ATOM	1301			A 164	23.911	31.258	2.958	1.00 46.92	AAAA
ATOM	1302	NE2		A 164	24.839	29.768 34.781	4.360 4.145	1.00 48.15 1.00 46.66	AAAA AAAA
ATOM ATOM	1303 1304	C O		A 164 A 164	27.365 27.193	35.489	5.141	1.00 46.28	AAAA
ATOM	1305	N		A 165	27.241	35.232	2.905	1.00 45.43	AAAA
ATOM	1306	CA	LYS	A 165	26.879	36.607	2.639	1.00 43.87	AAAA
MOTA	1307	CB		A 165	27.515	37.062	1.321	1.00 44.86	AAAA
ATOM ATOM	1308 1309	CG		A 165 A 165	29.035 29.604	37.023 37.507	1.324	0.01 44.06 0.01 43.80	AAAA AAAA
ATOM	1310	CE		A 165	31.124	37.473	0.010	0.01 43.59	AAAA
ATOM	1311	NZ		A 165	31.699	37.949	-1.279	0.01 43.16	AAAA
MOTA	1312	C		A 165	25.366	36.697	2.571	1.00 42.44	AAAA
ATOM	1313	0		A 165	24.676 24.860	35.673 37.924	2.531 2.576	1.00 42.23	AAAA AAAA
ATOM ATOM	1314 1315	N CA		A 166 A 166	23.430	38.184	2.518	1.00 37.27	AAAA
ATOM	1316	C		A 166	23.022	38.173	1.024	1.00 35.93	AAAA
ATOM	1317	0		A 166	23.862	38.485	0.177	1.00 34.55	AAAA
ATOM	1318	CB		A 166	23.154	39.572	3.118	1.00 39.87	AAAA
MOTA MOTA	1319 1320	N SG		A 166 A 167	23.882 21.771	40.161 37.819	4.722 0.682	1.00 40.82	AAAA AAAA
ATOM	1321	CA		A 167		37.818			AAAA
ATOM	1322	CB		A 167		37.557		1.00 25.26	AAAA
ATOM	1323	CG		A 167		36.918	-2.310	1.00 20.74	AAAA
ATOM	1324 1325			A 167 A 167		36.387 36.917	-3.006 -2.720	1.00 21.79 1.00 6.51	AAAA AAAA
ATOM ATOM	1325	C OD3		A 167		39.246		1.00 34.55	AAAA
ATOM	1327	ō		A 167		40.167		1.00 35.83	AAAA
ATOM	1328	И	PRO	A 168		39.453		1.00 36.39	AAAA
ATOM	1329	CD		A 168		38.547		1.00 36.09	AAAA
ATOM ATOM	1330 1331	CA CB		A 168		40.849			AAAA AAAA
ATOM	1332	CG		A 168		39.420		1.00 37.21	AAAA
ATOM	1333	C		A 168		41.850			AAAA
MOTA	1334	0		A 168		43.056		1.00 40.08	AAAA
ATOM	1335	N		A 169		41.370			АААА АААА
MOTA MOTA	1336 1337	CA CB		A 169		42.284 41.526		1.00 42.06 1.00 43.24	AAAA AAAA
ATOM	1337	OG		A 169		41.020			AAAA
ATOM	1339	C		A 169		43.022			AAAA
ATOM	1340	0	SER	A 169	18.089	43.759			AAAA
ATOM	1341	N		A 170		42.824			AAAA
MOTA	1342 1343	CA C		A 170		43.445 44.763			AAAA AAAA
ATOM ATOM	1343	0		A 170					AAAA
ATOM	1345	CB		A 170					AAAA

ATOM	1346	SG	CYS	А	170	20.099	40.980	2.481.	1.00 37.44	AAAA
ATOM	1347	N			171 .	20.541	45.812	1.714	1.00 41.58	AAAA
ATOM	1348	CD	PRO	Α	171	19.235	45.791	2.395	1.00 41.74	AAAA
ATOM	1349	CA	PRO	Α	171	21.144	47.160	1.796	1.00 41.58	AAAA
ATOM	1350	CB	PRO	Α	171	20.231	47.889	2.770	1.00 40.94	AAAA
ATOM	1351	CG			171	18.901	47.265	2.485	1.00 42.75	AAAA
ATOM	1352	С			171	22.576	47.094	2.306	1.00 41.09	AAAA
ATOM	1353	0			171	22.832	46.526	3.355	1.00 40.69	AAAA
ATOM	1354	N	ASN			23.501	47.687	1.565	1.00 42.04	AAAA
ATOM	1355	CA	ASN			24.924	47.645	1.903	1.00 43.69	AAAA AAAA
ATOM	1356	CB			172	25.296	48.738	2.901	1.00 42.72	AAAA
ATOM	1357	CG			172	26.797	48.943	3.001	0.01 42.16	AAAA
ATOM	1358		ASN ASN			27.270 27.553	49.764 48.197	3.786 2.203	0.01 42.04	AAAA
MOTA	1359 1360				172	25.273	46.274	2.483	1.00 45.50	AAAA
ATOM ATOM	1361	C 0			172	26.265	46.112	3.201	1.00 45.46	AAAA
ATOM	1362	N			173	24.447	45.286	2.147	1.00 46.36	AAAA
MOTA	1363	CA			173	24.659	43.940	2.634	1.00 47.36	AAAA
ATOM	1364	C			173	24.566	43.928	4.139	1.00 47.78	AAAA
ATOM	1365	ō			173	25.573	43.678	4.804	1.00 48.35	AAAA
ATOM -	1366	N			174	23.366	44.204	4.663	1.00 47.21	AAAA
ATOM	1367	CA			174	23.119	44.238	6.107	1.00 45.98	AAAA
MOTA	1368	CB	SER	Α	174	22.092	45.322	6.433	1.00 46.67	AAAA
ATOM	1369	OG	SER	Α	174	22.683	46.612	6.375	1.00 46.52	AAAA
ATOM	1370	C	SER	Α	174	22.656	42.890	6.662	1.00 44.43	AAAA
ATOM	1371	0	SER	Α	174	23.454	42.131	7.212	1.00 44.32	·· AAAA
ATOM	1372	N	CYS	Α	175	21.366	42.607	6.544	1.00 41.87	AAAA
ATOM	1373	CA	CYS	Α	175	20.816	41.328	6.992	1.00 39.77	AAAA
ATOM	1374	С	CYS	Α	175	21.271	40.722	8.315	1.00 38.41	AAAA
ATOM	1375	0			175	22.445	40.757	8.657	1.00 36.77	AAAA
ATOM	1376	CB			175	21.078	40.289	5.933	1.00 39.04	AAAA
ATOM	1377	SG			175	22.634	39.352	6.113	1.00 38.65	AAAA
ATOM	1378	N			176	20.327	40.113	9.029	1.00 38.82	AAAA AAAA
ATOM	1379	CA			176	20.625	39.460	10.302	1.00 39.58 1.00 39.87	AAAA
ATOM	1380	CB			176	19.441	39.554 40.933	11.274 11.666	1.00 40.60	AAAA
ATOM	1381	CG			176	19.087 19.601	40.933	12.785	1.00 40.00	AAAA
MOTA	1382		TRP			19.001	42.951	12.732	1.00 42.67	AAAA
ATOM ATOM	1383 1384				176	20.484	41.353	13.827	1.00 42.84	AAAA
ATOM	1385				176	18.259	41.777	11.005	1.00 40.45	AAAA
ATOM	1386				176	18.224	42.993	11.633	1.00 42.18	AAAA
ATOM	1387				176	19.336	43.939	13.684	1.00 43.58	AAAA
ATOM	1388				176	20.780	42.335	14.773	1.00 42.51	AAAA
MOTA	1389	CH2	TRP	Α	176	20.207	43.611	14.693	1.00 42.94	AAAA
MOTA	1390	С	TRE	Α	176	20.969	37.984	10.092	1.00 39.42	AAAA
ATOM	1391	0	TRE	Α	176	20.887	37.184	11.022	1.00 39.86	AAAA
MOTA	1392	N	GLY	Ά	. 17 <b>7</b>	21.353	37.630	8.871	1.00 38.90	AAAA
MOTA	1393	CA			177	21.711	36.254	8.582	1.00 39.23	AAAA
MOTA	1394	С	GLY	Α	. 177	21.485	35.868	7.133	1.00 39.70	AAAA
MOTA	1395	0			. 177	20.940	36.644	6.354	1.00 40.29	AAAA
ATOM	1396	N			. <b>1</b> 78	21.904	34.664	6.764	1.00 39.19	AAAA AAAA
ATOM	1397	CA			178	21.725	34.201	5.399	1.00 38.43 1.00 37.85	AAAA
MOTA	1398	CB			178	22.358	32.843	5.227 5.087	1.00 37.83	AAAA
MOTA	1399	C			178	20.234	34.134 33.578	5.854	1.00 33.27	AAAA
MOTA	1400	0			. 178 . 179	19.457 19.838	34.712	3.960	1.00 37.03	AAAA
ATOM	1401 1402	N CA			179	18.438	34.703	3.584	1.00 39.11	AAAA
MOTA MOTA	1402	C			179	18.004	36.028	2.993	1.00 39.66	AAAA
MOTA	1404	o			179	18.578	37.078	3.291	1.00 39.25	AAAA
ATOM	1405	N			180	16.996	35.978	2.133	1.00 39.94	AAAA
MOTA	1406	CA			180	16.477	37.185	1.502	1.00 40.80	AAAA
ATOM	1407	CB			180	16. <b>1</b> 18	36.919	0.036	1.00 40.53	AAAA
ATOM	1408	CG			180	15.070	35.833	-0.163	0.01 40.69	AAAA
MOTA	1409	CD	GLU	J A	180	15.563	34.459	0.248	0.01 40.66	AAAA
ATOM	1410	OE1	GLU	<b>J</b>	180	16.558	33.983	-0.337	0.01 40.61	AAAA
ATOM	1411	OE 2	GLU	J A	180	14.955	33.856	1.157	0.01 40.62	AAAA
MOTA	1412	С	GLU	J A	180	15.238	37.606	2.286	1.00 40.95	AAAA
MOTA	1413	0			180	14.369	38.339	1.786	1.00 40.56	AAAA
ATOM	1414	N			181	15.172	37.105	3.519	1.00 39.88	AAAA
ATOM	1415	CA			181	14.084	37.402	4.438	1.00 37.97	AAAA
MOTA	1416	CB			181	13.366	36.120	4.862	1.00 38.57	AAAA AAAA
MOTA	1417	CG			181	12.216	36.333	5.836 5.287	0.01 38.20 0.01 38.16	AAAA
ATOM	1418	CD			181	11.146	37.257	4.233	0.01 38.16	AAAA
MOTA	1419				181 181	10.560 10.891	36.933 38.308	5.911	0.01 37.87	AAAA
ATOM	1420	UE 2	- ATI	, ,	, TOT	10.091	30.300		21.22	·

ATOM	1421	С	GLU	Α	181	1	4.730	38.039	5.640	1.00	36.76	AAAA
ATOM	1422	Ō	GLU				4.045		6.516		36.71	AAAA
								38.553				
ATOM	1423	N	ASN	А	182	1	6.062	38.005	5.659	1.00	36.46	AAAA
ATOM	1424	CA	ASN	А	182	1	6.846	38.566	6.756	1.00	36.59	AAAA
ATOM	1425	CB	ASN	A	182	1	8.029	37.675	7.084	1 00	35.91	AAAA
ATOM	1426	CG	ASN									
							7.613	36.417	7.759		37.28	AAAA
ATOM	1427	OD1	ASN	Α	182	1	6.948	36.446	8.795	1.00	36.76	AAAA
ATOM	1428	ND2	ASN	Α	182	1	7.992	35.288	7.178	1.00	37.83	AAAA
ATOM	1429	C	ASN									
							7.371	39.959	6.543		36.43	AAAA
ATOM	1430	0	ASN	А	182	1	7.737	40.624	7.501	1.00	37.13	AAAA
ATOM	1431	N	CYS	Α	183	1	7.430	40.396	5.291	1.00	37.15	AAAA
ATOM	1432	CA	CYS				7.927	41.726	4.978		36.13	AAAA
ATOM	1433	С	CYS				7.440	42.727	6.030		35.84	AAAA
ATOM	1434	0	CYS	Α	183	1	6.305	42.646	6.509	1.00	35.43	AAAA
ATOM	1435	CB	CYS	Α	183	1	7.452	42.158	3.589	1.00	36.56	AAAA
ATOM	1436	SG	CYS				8.115	41.278	2.129		36.85	AAAA
MOTA	1437	N	GLN				8.311	43.658	6.399	1.00	34.98	AAAA
ATOM	1438	CA	GLN	Α	184	1	7.976	44.662	7.396	1.00	34.78	AAAA
ATOM	1439	CB	GLN	А	184	1	9.253	45.309	7.938	1.00	32.09	AAAA
ATOM	1440	CG	GLN									
							9.046	46.679	8.571		29.36	AAAA
ATOM	1441	CD	GLN	Α	184	2	0.276	47.187	9.293	1.00	29.83	AAAA
ATOM	1442	OE1	GLN	Α	184	2	1.392	47.060	8.793	1.00	28.08	AAAA
MOTA	1443	NE2	GLN	Δ	184		0.076	47.780	10.473		25.32	AAAA
MOTA	1444	С			184		7.057	45.751	6.869		36.28	AAAA
ATOM	1445	0	GLN	Α	184	1	7.535	46.732	6.314	1.00	38.36	AAAA
ATOM	1446	N	LYS	A	185		5.747	45.585	7.042	1.00	36.66	AAAA
ATOM	1447	CA						46.600				
					185		4.786		6.602		37.51	AAAA
ATOM	1448	CB	LYS	Α	185	1	.3.403	46.322	7.193	1.00	37.74	AAAA
ATOM	1449	ÇG	LYS	Α	185	1	2.894	44.907	7.050	1.00	37.22	AAAA
ATOM	1450	CD			185		1.561	44.754	7.778		37.75	AAAA
ATOM	1451	CE			185		.1.057	43.306	7.762		38.08	AAAA
ATOM	1452	NZ	LYS	Α	185	1	.1.994	42.307	8.363	1.00	35.25	AAAA
ATOM	1453	С	LYS	Α	185	1	5.275	47.948	7.144	1.00	38.14	AAAA
MOTA	1454	0			185		6.045	47.979	8.099		38.83	AAAA
MOTA	1455	N			186		4.842	49.062	6.559		38.84	AAAA
ATOM	1456	CA	LEU	Α	186	1	.5.287	50.351	7.074	1.00	39.71	AAAA
ATOM	1457	CB	LEU	Α	186	1	.6.409	50.917	6.201	1.00	38.05	AAAA
ATOM	1458	CG			186		7.737	50.148	6.313		38.34	AAAA
MOTA	1459		LEU				.8.777	50.742	5.386		37.13	AAAA
ATOM	1460	CD2	LEU	Α	186	1	.8.238	50.184	7.744	1.00	37.12	AAAA
ATOM	1461	С	LEU	Α	186	1	4.169	51.372	7.253	1.00	41.45	AAAA
MOTA	1462	0			186		3.165	51.346	6.538		41.35	AAAA
ATOM	1463	N			187		4.342	52.256	8.237	1.00	43.16	AAAA
MOTA	1464	CA	THR	Α	187	1	.3.350	53.287	8.539	1.00	44.60	AAAA
ATOM	1465	CB	THR	- A	187	3	2.227	52.731	9.438	1:00	45.06	AAAA
ATOM	1466	OG1			187		2.806	52.158	10.616		45.12	AAAA
ATOM	1467	CG2			187		1.419	51.665	8.702	1.00	44.75	AAAA
ATOM	1468	С	THR	Α	187	1	13.936	54.528	9.224	1.00	45.65	AAAA
ATOM	1469	0	THR	Α	187	1	13.255	55.177	10.014	1.00	44.03	AAAA
ATOM	1470	N			188		5.186	54.867	8.914		47.97	AAAA
ATOM	1471	CA			188	]	15.807	56.040	9.521	1.00	50.73	AAAA
MOTA	1472	CB	LYS	A	188	1	16.298	55.687	10.919	1.00	50.11	AAAA
ATOM	1473	CG	LYS	Α	188	1	L6.494	56.872	11.833	1.00	50.52	AAAA
ATOM	1474	CD			188		16.824	56.383	13.226		51.46	AAAA
ATOM	1475	CE			188		16.889	57.514	14.221		52.25	AAAA
ATOM	1476	NZ			188	1	L7.177	56.996	15.583	1.00	52.30	AAAA
ATOM	1477	С	LYS	Α	188	1	L6.949	56.664	8.709	1.00	52.68	AAAA
ATOM	1478	0			188		17.176	57.874	8.785		53.98	AAAA
ATOM	1479	N			189		17.666	55.852	7.939		53.29	AAAA
ATOM	1480	CA	ILE	Α	189	1	18.765	56.364	7.119	1.00	54.99	AAAA
MOTA	1481	CB	ILE	Α	189	1	19.967	55.392	7.137	1.00	55.83	AAAA
ATOM	1482		ILE				21.129	55.967	6.315		57.48	AAAA
ATOM	1483		ILE				20.405	55.140	8.580		56.12	AAAA
MOTA	1484	CD1	ILE	Α	189	2	21.553	54.154	8.700	1.00	56.06	AAAA
ATOM	1485	С	ILE	Α	189		18.293	56.531	5.671	1.00	55.28	AAAA
ATOM	1486	ō			189		19.015	57.024	4.803		54.25	AAAA
ATOM	1487	N			190		17.060	56.112	5.430		55.95	AAAA
ATOM	1488	CA	ILE	Α	190		16.457	56.165	4.110	1.00	56.08	AAAA
ATOM	1489	CB	ILE	А	190		16.266	54.733	3.582		56.14	AAAA
ATOM	1490		ILE								56.11	AAAA
							15.553	54.730	2.249			
ATOM	1491		ILE				17.636	54.071	3.452		57.53	AAAA
MOTA	1492	CD1	ILE	Α	190		17.596	52.667	2.879	1.00	60.38	AAAA
MOTA	1493	С			190		15.114	56.880	4.208		57.08	AAAA
ATOM	1494	Õ			190				3.723		57.69	AAAA
							14.092	56.387				
MOTA	1495	N	CYS	A	191		15.116	58.045	4.850	1.00	56.18	AAAA

APON   1495   C													
APON	ATOM	1496	CA	CYS	А	191		13.889	58.808	5.004	1.00	54.94	AAAA
AROM 1499 OB CYS A 191 14.998 60.858 4.955 1.00 54.81 AAAA AROM 1500 56 CYS A 191 12.977 57.453 7.347 1.00 52.93 AAAA AROM 1501 N ALA A 192 12.792 60.602 3.849 1.00 55.09 AAAA AROM 1502 CA ALA A 192 12.630 61.884 3.188 1.00 53.54 AAAA AROM 1502 CA ALA A 192 12.630 61.884 3.188 1.00 53.54 AAAA AROM 1503 CE ALA A 192 13.061 63.071 4.055 1.00 52.08 AAAA AROM 1503 CE ALA A 192 13.061 63.071 4.055 1.00 52.08 AAAA AROM 1505 CA ALA A 192 13.061 63.071 4.055 1.00 52.08 AAAA AROM 1506 CA ALA A 192 13.061 63.071 4.055 1.00 52.08 AAAA AROM 1507 CA GLN A 193 13.745 64.017 3.411 1.00 52.06 AAAA AROM 1508 CA GLN A 193 13.745 64.017 3.411 1.00 52.06 AAAA AROM 1508 CA GLN A 193 14.454 66.328 2.996 1.00 51.92 AAAA AROM 1509 CG GLN A 193 14.454 66.328 2.996 1.00 51.92 AAAA AROM 1509 CG GLN A 193 15.694 67.161 0.975 0.01 55.09 AAAA AROM 1510 CD GLN A 193 15.694 67.161 0.975 0.01 50.09 AAAA AROM 1510 CD GLN A 193 15.694 67.161 0.975 0.01 50.09 AAAA AROM 1510 CD GLN A 193 16.801 67.890 1.00 10.00 52.08 AAAA AROM 1510 CD GLN A 193 16.801 67.890 1.00 10.00 52.2 AAAA AROM 1510 CD GLN A 193 16.801 67.890 1.00 10.00 52.2 AAAA AROM 1510 CD GLN A 193 13.897 66.005 6.00 6.00 6.00 AAAA AROM 1510 CD GLN A 193 13.897 66.005 6.00 6.00 6.00 52.2 AAAA AROM 1510 CD GLN A 193 13.897 66.005 6.00 6.00 6.00 52.2 AAAA AROM 1510 CD GLN A 193 13.897 66.005 6.00 6.00 6.00 52.2 AAAA AROM 1510 CD GLN A 193 13.897 66.005 6.00 6.00 52.2 AAAA AROM 1510 CD GLN A 193 13.897 66.005 6.00 6.00 6.00 52.2 AAAA AROM 1510 CD GLN A 193 13.897 66.005 6.00 6.00 6.00 52.2 AAAA AROM 1510 CD GLN A 194 10.173 66.547 5.802 1.00 53.55 AAAA AROM 1510 CD GLN A 194 10.170 66.00 6.00 6.00 52.91 AAAA AROM 1510 CD GLN A 194 10.170 66.00 6.00 6.00 52.91 AAAA AROM 1510 CD GLN A 194 10.171 66.547 5.802 1.00 53.52 AAAA AROM 1510 CD GLN A 194 10.171 66.00 6.00 6.00 53.52 AAAA AROM 1520 CD GLN A 194 10.00 66.00 6.00 6.00 53.52 AAAA AROM 1520 CD GLN A 194 10.00 66.00 6.00 6.00 53.52 AAAA AROM 1520 CD GLN A 194 10.00 66.00 52.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00													
AROM 1500 SG CYS A 191 13.523 SB.959 6.482 1.00 54.47 AAAA AROM 1500 SG CYS A 191 12.792 60.602 3.849 1.00 55.09 AAAA AROM 1502 CA ALA A 192 12.792 60.602 3.849 1.00 55.09 AAAA AROM 1503 CA ALA A 192 11.171 62.042 2.742 1.00 52.78 AAAA AROM 1504 CA ALA A 192 11.171 62.042 2.742 1.00 52.78 AAAA AROM 1505 CA ALA A 192 11.171 62.042 2.742 1.00 52.78 AAAA AROM 1505 CA ALA A 192 12.775 63.125 5.258 1.00 51.08 AAAA AROM 1505 CA ALA A 192 12.775 63.125 5.258 1.00 51.08 AAAA AROM 1505 CA ALA A 192 12.775 63.125 5.258 1.00 51.08 AAAA AROM 1506 CB GLN A 193 14.253 65.234 4.044 1.00 52.86 AAAA AROM 1506 CB GLN A 193 14.253 65.234 4.044 1.00 52.86 AAAA AROM 1509 CB GLN A 193 14.454 66.328 2.996 1.00 51.02 AAAA AROM 1509 CB GLN A 193 14.596 66.049 1.993 0.01 51.40 AAAA AROM 1509 CB GLN A 193 14.814 67.370 0.140 0.01 50.51 AAAA AROM 1510 CD GLN A 193 14.814 67.370 0.140 0.01 50.51 AAAA AROM 1510 CD GLN A 193 14.814 67.370 0.140 0.01 50.51 AAAA AROM 1510 CD GLN A 193 14.814 67.370 0.140 0.01 50.51 AAAA AROM 1510 CD GLN A 193 13.372 65.783 51.50 1.00 53.45 AAAA AROM 1510 CD GLN A 193 13.372 65.783 51.50 1.00 53.45 AAAA AROM 1510 CD GLN A 193 13.372 65.783 51.50 1.00 53.45 AAAA AROM 1510 CD GLN A 193 13.372 65.783 51.50 1.00 53.45 AAAA AROM 1517 CD GLN A 194 12.102 66.014 4.836 1.00 54.55 AAAA AROM 1517 CD GLN A 194 12.102 66.014 4.836 1.00 54.55 AAAA AROM 1517 CD GLN A 194 12.102 66.014 4.836 1.00 55.29 AAAA AROM 1517 CD GLN A 194 10.214 67.554 51.79 1.00 54.55 AAAA AROM 1517 CD GLN A 194 10.214 67.555 51.00 1.00 55.29 AAAA AROM 1517 CD GLN A 194 10.214 67.555 51.00 1.00 55.29 AAAA AROM 1527 CD GLN A 194 10.214 67.555 51.00 1.00 55.29 AAAA AROM 1527 CD GLN A 194 10.214 67.555 51.00 1.00 55.29 AAAA AROM 1527 CD GLN A 194 10.214 67.555 51.00 1.00 55.29 AAAA AROM 1527 CD GLN A 194 10.214 67.555 51.00 1.00 55.29 AAAA AROM 1527 CD GLN A 194 10.214 67.555 51.00 1.00 55.29 AAAA AROM 1527 CD GLN A 194 10.214 67.555 51.00 55.29 AAAA AROM 1527 CD GLN A 194 10.214 67.555 51.00 55.20 51.00 55.20 AAAA AROM 1527 CD GLN A 194 10.214 67.555 5													
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AROM 1504 C ALA A 192 13.061 63.071 4.055 1.00 52.81 AAAA AROM 1505 O ALA A 192 12.775 63.125 5.258 1.00 51.08 AAAA AROM 1507 CA GLIN A 193 13.745 64.017 3.411 1.00 52.86 AAAA AROM 1507 CA GLIN A 193 14.253 65.234 4.044 1.00 52.86 AAAA AROM 1508 CB GLIN A 193 14.253 65.234 4.044 1.00 52.86 AAAA AROM 1508 CB GLIN A 193 15.554 66.017 3.411 1.00 52.86 AAAA AROM 1508 CB GLIN A 193 15.554 66.049 1.993 0.01 51.10 AAAA AROM 1510 CD GLIN A 193 15.554 66.049 1.993 0.01 51.90 AAAA AROM 1510 CD GLIN A 193 15.694 67.161 0.975 0.01 50.90 AAAA AROM 1510 CD GLIN A 193 15.694 67.161 0.975 0.01 50.90 AAAA AROM 1513 C GLIN A 193 13.837 66.005 6.261 1.00 50.22 AAAA AROM 1513 C GLIN A 193 13.837 66.005 6.261 1.00 50.22 AAAA AROM 1515 N GLIN A 193 13.837 66.005 6.261 1.00 52.91 AAAA AROM 1515 N GLIN A 194 11.173 66.547 5.820 1.00 55.29 AAAA AROM 1516 CA GLIN A 194 11.173 66.547 5.820 1.00 55.29 AAAA AROM 1516 CB GLIN A 194 11.173 66.547 5.820 1.00 55.29 AAAA AROM 1518 CG GLIN A 194 10.515 67.855 3.747 1.00 57.71 AAAA AROM 1518 CD GLIN A 194 10.515 67.855 3.747 1.00 57.71 AAAA AROM 1518 CD GLIN A 194 10.515 67.855 3.747 1.00 57.71 AAAA AROM 1520 CD GLIN A 194 10.370 65.666 6.521 1.00 55.29 AAAA AROM 1520 CD GLIN A 194 10.370 65.666 6.521 1.00 55.43 AAAA AROM 1522 C GLIN A 194 10.370 65.666 6.521 1.00 55.43 AAAA AROM 1522 C GLIN A 194 10.370 65.666 6.521 1.00 55.43 AAAA AROM 1522 C GLIN A 194 10.370 65.666 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.666 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.666 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.666 6.521 1.00 55.43 AAAA AROM 1520 C CYS A 195 11.072 64.593 7.249 1.00 54.67 AAAA AROM 1520 C CYS A 195 11.072 64.593 7.249 1.00 54.67 AAAA AROM 1520 C CYS A 195 11.072 64.593 7.249 1.00 54.67 AAAA AROM 1520 C CYS A 195 11.072 66.593 7.249 1.00 54.67 AAAA AROM 1520 C CYS A 195 11.072 66.593 7.249 1.00 54.67 AAAA AROM 1520 C CYS A 195 11.072 66.593 7.249 1.00 54.67 AAAA AROM 1520 C CYS A 195 10.227 62.301 7.095 1.00 54.67 AAAA AROM 1520 C CYS A 195 10.227 62	ATOM	1502	CA	ALA	Α	192		12.630	61.884	3.188	1.00	53.54	AAAA
AROM 1506 C ALAR A 192 13.061 63.071 4.055 1.00 52.81 AAAA AROM 1505 O ALAR A 192 12.775 63.125 5.258 1.00 51.08 AAAA AROM 1507 CA GLIN A 193 13.745 64.017 3.411 1.00 52.86 AAAA AROM 1507 CA GLIN A 193 14.454 66.328 2.996 1.00 51.92 AAAA AROM 1509 CG GLIN A 193 14.454 66.328 2.996 1.00 51.92 AAAA AROM 1509 CG GLIN A 193 15.594 66.049 1.993 .001 51.40 AAAA AROM 1510 CD GLIN A 193 15.594 66.049 1.993 .001 51.90 AAAA AROM 1510 CD GLIN A 193 15.694 67.161 0.975 0.01 50.90 AAAA AROM 1510 CD GLIN A 193 16.694 67.161 0.975 0.01 50.90 AAAA AROM 1512 NEZ GLIN A 193 16.801 67.890 1.046 1.00 50.22 AAAA AROM 1513 C GLIN A 193 13.837 66.005 6.261 1.00 50.22 AAAA AROM 1515 N GLIN A 193 13.837 66.005 6.261 1.00 52.91 AAAA AROM 1515 N GLIN A 194 11.173 66.547 5.820 1.00 55.29 AAAA AROM 1516 CA GLIN A 194 11.173 66.547 5.820 1.00 55.29 AAAA AROM 1516 CA GLIN A 194 11.173 66.547 5.820 1.00 55.29 AAAA AROM 1516 CA GLIN A 194 10.214 67.554 5.179 1.00 54.29 AAAA AROM 1516 CA GLIN A 194 10.515 67.855 3.747 1.00 57.71 AAAA AROM 1510 CD GLIN A 194 10.515 67.855 3.747 1.00 57.71 AAAA AROM 1510 CD GLIN A 194 10.515 67.855 3.747 1.00 57.71 AAAA AROM 1510 CD GLIN A 194 10.370 65.466 6.521 1.00 55.29 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 55.43 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 56.467 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 56.467 AAAA AROM 1520 CD GLIN A 194 10.370 65.466 6.521 1.00 56.467 AAAA AROM 15	ATOM	1503	CB	ALA	Α	192		11.171	62.042	2.742	1.00	52.78	AAAA
ARCOM 1505 O ALLA À 192 12.775 63.125 5.258 1.00 51.08 AAAA ARCOM 1506 N GUN A 193 14.253 65.234 4.044 1.00 52.86 AAAA ARCOM 1507 66 UN GUN A 193 14.253 65.234 4.044 1.00 52.86 AAAA ARCOM 1508 CB GUN A 193 14.253 65.234 4.044 1.00 52.86 AAAA ARCOM 1509 CB GUN A 193 15.554 66.049 1.993 0.01 51.40 AAAA ARCOM 1510 CD GUN A 193 15.554 66.049 1.993 0.01 51.40 AAAA ARCOM 1511 OPE GUN A 193 15.554 66.049 1.993 0.01 51.40 AAAA ARCOM 1511 OPE GUN A 193 14.814 67.370 0.140 0.01 50.51 AAAA ARCOM 1511 OPE GUN A 193 13.372 65.783 5.150 1.00 50.95 AAAA ARCOM 1513 C GUN A 193 13.372 65.783 5.150 1.00 53.45 AAAA ARCOM 1513 C GUN A 193 13.387 66.050 5.625 1.00 55.29 AAAAA ARCOM 1515 C ABABA 194 10.214 67.554 5.179 1.00 54.55 AAAA ARCOM 1515 CABABA 194 10.214 67.554 5.179 1.00 54.55 AAAA ARCOM 1518 C ABBAB 194 10.214 67.554 5.179 1.00 54.92 AAAA ARCOM 1518 C ABBAB 194 10.214 67.555 67.555 3.747 1.00 57.71 AAAAA ARCOM 1518 C ABBAB 194 10.214 67.556 5.374 1.00 55.73 AAAAA ARCOM 1518 C ABBAB 194 10.214 67.556 5.375 1.00 55.29 AAAAA ARCOM 1518 C ABBAB 194 9.390 65.822 2.819 1.00 60.36 AAAAA ARCOM 1520 C ABBAB 194 9.390 65.822 2.819 1.00 60.36 AAAAA ARCOM 1520 C ABBAB 194 9.390 65.822 2.819 1.00 60.36 AAAAA ARCOM 1520 C ABBAB 194 9.390 65.822 1.566 1.00 55.435 AAAAA ARCOM 1520 C ABBAB 194 9.390 65.822 1.566 1.00 55.435 AAAAA ARCOM 1522 C GUN A 194 10.370 65.466 65.21 1.00 55.435 AAAAA ARCOM 1525 C C CYS A 195 11.072 64.595 1.00 54.67 AAAA ARCOM 1525 C C CYS A 195 11.072 64.595 1.00 54.67 AAAA ARCOM 1525 C C CYS A 195 11.072 64.595 1.00 54.67 AAAA ARCOM 1525 C C CYS A 195 11.072 64.595 1.00 54.67 AAAA ARCOM 1525 C C CYS A 195 11.072 64.595 1.00 54.67 AAAA ARCOM 1526 C CYS A 195 11.072 64.595 1.00 54.67 AAAA ARCOM 1526 C CYS A 195 11.072 64.595 1.00 54.67 AAAA ARCOM 1526 C CYS A 195 11.072 64.595 1.00 54.67 AAAA ARCOM 1527 C CYS A 195 11.072 64.595 1.00 54.67 AAAA ARCOM 1528 C ABBAB 194 10.370 65.466 65.21 1.00 55.45 AAAA ARCOM 1526 C ABBAB 194 10.370 65.466 65.21 1.00 55.45 AAAA ARCOM 1526 C ABBAB 194 10.370 65.466 65.21 1.00 55.45 AA										4.055	1.00	52.81	AAAA
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ATOM 1511 OEI GIN À 193 14.814 67.370 0.140 0.01 50.51 AAAA ATOM 1512 NE2 GIN À 193 13.372 65.783 5.150 1.00 53.45 AAAA ATOM 1513 C GIN À 193 13.372 65.783 5.150 1.00 53.45 AAAA ATOM 1515 N GIN À 194 12.102 66.014 4.836 1.00 54.55 AAAA ATOM 1516 CA GIN À 194 12.102 66.014 4.836 1.00 54.55 AAAA ATOM 1516 CA GIN À 194 12.102 66.014 4.836 1.00 54.55 AAAA ATOM 1516 CA GIN À 194 12.102 66.014 4.836 1.00 54.55 AAAA ATOM 1516 CA GIN À 194 10.214 67.554 5.179 1.00 55.29 AAAA ATOM 1510 CB GIN À 194 10.214 67.554 5.179 1.00 57.71 AAAA ATOM 1510 CD GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN À 194 9.307 65.466 6.522 1.00 61.15 AAAA ATOM 1520 CD GIN À 194 9.307 65.466 6.522 1.00 61.15 AAAA ATOM 1520 CD GIN À 194 9.307 65.466 6.522 1.00 55.43 AAAA ATOM 1520 CD GIN À 194 9.137 65.455 6.455 6.452 1.00 55.43 AAAA ATOM 1526 CD CVS À 195 11.042 63.536 7.990 1.00 54.67 AAAA ATOM 1526 CD CVS À 195 11.042 63.506 7.990 1.00 54.67 AAAA ATOM 1527 CD CVS À 195 11.44 63.075 9.255 1.00 55.28 AAAA ATOM 1527 CD CVS À 195 10.227 62.501 7.095 1.00 54.03 AAAA ATOM 1528 CD CVS À 195 10.227 62.501 7.095 1.00 54.03 AAAA ATOM 1527 CD CVS À 195 10.227 62.501 7.095 1.00 54.03 AAAA ATOM 1528 CD CVS À 195 10.227 62.501 7.095 1.00 54.03 AAAA ATOM 1520 CD CVS À 195 10.227 62.501 7.095 1.00 54.03 AAAA ATOM 1520 CD CVS À 195 10.227 62.501 7.095 1.00 54.03 AAAA ATOM 1520 CD CVS À 195 10.227 62.501 7.095 1.00 54.03 AAAA ATOM 1520 CD CVS À 195 10.227 62.501 7.095 1.00 54.03 AAAA ATOM 1520 CD CVS À 195 10.227 62.501 7.095 1.00 54.03 AAAA ATOM 1520 CD CVS À 195 10.227 62.501 7.00 51.42 AAAA ATOM 1520 CD CVS À 199 10.00 63.852 1.00 63.852 1.00 63.852 AAAA ATOM 1530 CD CVS À 199 10.00 63.852 1.00 63.85	MOTA	1509	CG	GLN	Α	193		15.554	66.049	1.993	0.01	51.40	AAAA
ATOM 1512 NEZ GIN À 193 16.801 67.890 1.046 1.00 50.22 AAAA ATOM 1514 0 GIN À 193 13.872 65.783 5.150 1.00 52.45 AAAA ATOM 1515 N GIN À 194 12.102 66.014 4.863 1.00 52.91 AAAA ATOM 1516 CA GIN À 194 11.173 66.547 5.820 1.00 55.29 AAAA ATOM 1516 CA GIN À 194 10.214 67.554 5.179 1.00 84.92 AAAA ATOM 1516 CB GIN À 194 10.214 67.555 3.777 1.00 57.71 AAAA ATOM 1516 CB GIN À 194 10.515 67.555 3.777 1.00 57.71 AAAA ATOM 1519 CD GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1519 CD GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CEI GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CEI GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CEI GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1521 NEZ GIN À 194 9.654 67.322 1.560 1.00 60.88 AAAA ATOM 1521 C GIN À 194 9.654 67.322 1.560 1.00 60.88 AAAA ATOM 1523 O GIN À 194 9.137 65.435 AAAA ATOM 1525 C GIN À 194 9.137 65.435 AAAA ATOM 1525 C C C C X A 195 10.072 6.6593 7.299 1.00 54.07 AAAA ATOM 1526 C C X A 195 10.072 66.593 7.299 1.00 54.07 AAAA ATOM 1526 C C X A 195 10.421 63.516 7.990 1.00 54.03 AAAA ATOM 1526 C C X A 195 10.421 63.516 7.990 1.00 54.03 AAAA ATOM 1527 O CX A 195 10.227 62.301 7.095 1.00 55.28 AAAA ATOM 1530 N SER À 196 10.227 62.301 7.095 1.00 55.28 AAAA ATOM 1531 CA SER À 196 10.227 62.301 7.095 1.00 55.28 AAAA ATOM 1531 CA SER À 196 11.471 64.243 12.551 1.00 55.28 AAAA ATOM 1531 CA SER À 196 11.471 64.243 12.551 1.00 55.28 AAAA ATOM 1531 CA SER À 196 11.471 64.243 12.551 1.00 55.28 AAAA ATOM 1531 CA SER À 196 11.471 64.243 12.551 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 44.22 AAAA ATOM 1531 CA SER À 196 10.297 62.098 12.298 12.190 1.00 48.26 AAAA ATOM 153	ATOM	1510	CD	GLN	Α	193		15.694	67.161	0.975	0.01	50.90	AAAA
ATOM 1512 NEZ GIN À 193 16.801 67.890 1.046 1.00 50.22 AAAA ATOM 1514 0 GIN À 193 13.872 65.783 5.150 1.00 52.45 AAAA ATOM 1515 N GIN À 194 12.102 66.014 4.863 1.00 52.91 AAAA ATOM 1516 CA GIN À 194 11.173 66.547 5.820 1.00 55.29 AAAA ATOM 1516 CA GIN À 194 10.214 67.554 5.179 1.00 84.92 AAAA ATOM 1516 CB GIN À 194 10.214 67.555 3.777 1.00 57.71 AAAA ATOM 1516 CB GIN À 194 10.515 67.555 3.777 1.00 57.71 AAAA ATOM 1519 CD GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1519 CD GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CEI GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CEI GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CEI GIN À 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1521 NEZ GIN À 194 9.654 67.322 1.560 1.00 60.88 AAAA ATOM 1521 C GIN À 194 9.654 67.322 1.560 1.00 60.88 AAAA ATOM 1523 O GIN À 194 9.137 65.435 AAAA ATOM 1525 C GIN À 194 9.137 65.435 AAAA ATOM 1525 C C C C X A 195 10.072 6.6593 7.299 1.00 54.07 AAAA ATOM 1526 C C X A 195 10.072 66.593 7.299 1.00 54.07 AAAA ATOM 1526 C C X A 195 10.421 63.516 7.990 1.00 54.03 AAAA ATOM 1526 C C X A 195 10.421 63.516 7.990 1.00 54.03 AAAA ATOM 1527 O CX A 195 10.227 62.301 7.095 1.00 55.28 AAAA ATOM 1530 N SER À 196 10.227 62.301 7.095 1.00 55.28 AAAA ATOM 1531 CA SER À 196 10.227 62.301 7.095 1.00 55.28 AAAA ATOM 1531 CA SER À 196 11.471 64.243 12.551 1.00 55.28 AAAA ATOM 1531 CA SER À 196 11.471 64.243 12.551 1.00 55.28 AAAA ATOM 1531 CA SER À 196 11.471 64.243 12.551 1.00 55.28 AAAA ATOM 1531 CA SER À 196 11.471 64.243 12.551 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 51.42 AAAA ATOM 1531 CA SER À 196 10.297 62.091 12.180 1.00 44.22 AAAA ATOM 1531 CA SER À 196 10.297 62.098 12.298 12.190 1.00 48.26 AAAA ATOM 153	ATOM	1511	OE1	GLN	Α	193		14.814	67.370	0.140	0.01	50.51	AAAA
ATOM 1513 C GIN A 193 13.372 65.783 5.150 1.00 53.45 AAAA ATOM 1516 0 GIN A 194 12.102 66.014 4.836 1.00 54.55 AAAA ATOM 1516 CA GIN A 194 12.102 66.014 4.836 1.00 54.55 AAAA ATOM 1516 CA GIN A 194 10.214 67.554 5.820 1.00 55.529 AAAA ATOM 1517 CB GIN A 194 10.214 67.555 3.747 1.00 57.71 AAAA ATOM 1518 CG GIN A 194 10.214 67.555 3.747 1.00 57.71 AAAA ATOM 1510 CD GIN A 194 10.515 67.855 3.747 1.00 57.71 AAAA ATOM 1520 CD GIN A 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN A 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN A 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN A 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN A 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN A 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN A 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 CD GIN A 194 9.806 66.912 2.819 1.00 65.456 1.00 60.88 AAAA ATOM 1522 C GIN A 194 9.137 66.455 6.455 6.412 1.00 55.43 AAAA ATOM 1525 CO CVS A 195 10.421 63.516 7.90 1.00 54.67 AAAA ATOM 1526 CA CVS A 195 10.421 63.516 7.90 1.00 54.67 AAAA ATOM 1528 CB CVS A 195 10.421 63.016 7.90 1.00 54.67 AAAA ATOM 1528 CB CVS A 195 10.421 63.016 7.90 1.00 54.03 AAAA ATOM 1528 CB CVS A 195 10.421 63.016 7.90 1.00 54.01 AAAA ATOM 1528 CB CVS A 195 10.227 62.301 7.005 1.00 54.71 AAAA ATOM 1528 CB CVS A 195 10.227 62.301 7.005 1.00 54.71 AAAA ATOM 1528 CB CS CVS A 195 10.227 62.301 7.005 1.00 54.71 AAAA ATOM 1528 CB CS CVS A 195 10.227 62.301 7.005 1.00 54.71 AAAA ATOM 1528 CB CS CVS A 195 10.641 63.821 10.394 1.00 52.12 AAAA ATOM 1528 CB CS CVS A 195 10.641 63.821 10.394 1.00 52.12 AAAA ATOM 1530 CB CS A 196 10.641 63.821 10.394 1.00 52.12 AAAA ATOM 1530 CB CS CS A 196 10.641 63.821 10.394 1.00 52.12 AAAA ATOM 1530 CB CS CS A 196 10.641 63.821 10.00 51.42 AAAA ATOM 1530 CB CS CS A 196 10.641 63.821 10.00 51.42 AAAA ATOM 1530 CB CS CS A 196 10.50 CB CS CS CS A 196 10.40 CB CS CS CS CS CS CS CS A 196 10.40 CB CS													
ATOM 1514 O GLN A 193 13.837 66.005 6.261 1.00 52.91 AAAA ATOM 1515 N GLN A 194 12.102 66.014 4.836 1.00 54.55 AAAA ATOM 1517 CB GLN A 194 11.173 66.547 5.820 1.00 54.52 AAAA ATOM 1518 CG GLN A 194 10.515 67.855 3.747 1.00 57.71 AAAA ATOM 1518 CG GLN A 194 10.515 67.855 3.747 1.00 67.71 AAAA ATOM 1519 CD GLN A 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 OEI GLN A 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 OEI GLN A 194 9.806 66.912 2.819 1.00 60.36 AAAAA ATOM 1520 CD GLN A 194 9.806 66.923 3.224 1.00 55.43 AAAA ATOM 1521 NEZ GLN A 194 9.854 67.322 1.560 1.00 55.43 AAAA ATOM 1522 C GLN A 194 9.137 65.455 6.412 1.00 55.43 AAAA ATOM 1523 O GLN A 194 9.137 65.455 6.412 1.00 55.43 AAAA ATOM 1524 N CYS A 195 11.072 64.593 7.249 1.00 54.67 AAAA ATOM 1525 CA CYS A 195 10.421 63.516 7.990 1.00 54.67 AAAA ATOM 1526 C CYS A 195 10.421 63.516 7.990 1.00 54.63 AAAA ATOM 1527 O CYS A 195 12.146 63.075 9.235 1.00 52.85 AAAAA ATOM 1528 C CYS A 195 10.421 63.516 7.990 1.00 54.03 AAAA ATOM 1529 SG CYS A 195 10.227 62.301 7.095 1.00 54.03 AAAA ATOM 1529 SG CYS A 195 10.227 62.301 7.095 1.00 54.17 AAAA ATOM 1529 SG CYS A 195 10.227 62.301 7.095 1.00 54.17 AAAA ATOM 1520 N SER A 196 11.253 63.061 11.650 1.00 51.42 AAAA ATOM 1530 N SER A 196 11.253 63.061 11.650 1.00 51.42 AAAA ATOM 1531 CA SER A 196 11.253 63.061 11.650 1.00 51.42 AAAA ATOM 1536 C SER A 196 11.253 63.061 11.650 1.00 51.42 AAAA ATOM 1536 N GLY A 197 10.702 60.792 12.190 1.00 49.13 AAAA ATOM 1536 C SER A 196 11.253 63.061 11.650 1.00 51.42 AAAA ATOM 1536 N GLY A 197 10.702 60.792 12.190 1.00 40.074 AAAA ATOM 1536 C SER A 196 11.253 63.061 11.650 1.00 51.42 AAAA ATOM 1536 N GLY A 197 10.386 S5.619 11.00 40.074 1.00 49.13 AAAA ATOM 1536 N GLY A 197 10.386 S5.619 11.00 40.077 AAAA ATOM 1536 N GLY A 197 10.386 S5.619 11.00 40.077 AAAA ATOM 1536 N GLY A 197 10.386 S5.619 11.00 40.077 AAAA ATOM 1536 N GLY A 197 10.386 S5.619 10.00 40.00 47.31 AAAA ATOM 1536 N GLY A 197 10.386 S5.619 10.00 40.00 47.31 AAAA ATOM 1536 N GLY A 197 10.386 S5.619 10.00 40.00 47.31 AAA													
ATOM   1515   N   CLN   A   194   12.102   66.014   4.836   1.00   54.55   AAAA   ATOM   1517   CB   GLN   A   194   11.173   66.547   5.820   1.00   55.29   AAAA   ATOM   1517   CB   GLN   A   194   10.515   67.855   3.747   1.00   54.92   AAAA   ATOM   1519   CD   GLN   A   194   10.515   67.855   3.747   1.00   54.71   AAAA   ATOM   1519   CD   GLN   A   194   9.806   66.912   2.819   1.00   60.36   AAAA   ATOM   1520   CEI   GLN   A   194   9.806   66.912   3.221   1.00   60.18   AAAA   ATOM   1521   NEZ   GLN   A   194   9.654   67.322   1.560   1.00   55.39   AAAA   ATOM   1522   C   GLN   A   194   9.654   67.322   1.560   1.00   55.39   AAAA   ATOM   1523   O   GLN   A   194   9.137   65.455   6.412   1.00   55.39   AAAA   ATOM   1524   N   CYS   A   195   11.072   64.593   7.249   1.00   54.67   AAAA   ATOM   1525   C   CYS   A   195   11.072   64.593   7.249   1.00   54.67   AAAA   ATOM   1526   C   CYS   A   195   11.144   63.075   9.235   1.00   52.85   AAAA   ATOM   1526   C   CYS   A   195   12.146   62.378   9.152   1.00   54.67   AAAA   ATOM   1527   O   CYS   A   195   10.227   62.301   7.995   1.00   54.71   AAAA   ATOM   1520   C   CYS   A   195   10.227   62.301   7.095   1.00   54.71   AAAA   ATOM   1520   C   CYS   A   195   10.227   62.301   7.095   1.00   54.71   AAAA   ATOM   1520   C   CYS   A   195   10.227   62.301   7.095   1.00   54.71   AAAA   ATOM   1520   C   CYS   A   195   10.227   62.301   7.095   1.00   54.71   AAAA   ATOM   1521   CA   SER   A   196   11.471   41.243   12.591   1.00   52.12   AAAA   ATOM   1533   C   SER   A   196   11.471   41.243   12.591   1.00   52.12   AAAA   ATOM   1533   C   SER   A   196   11.471   41.243   12.591   1.00   51.42   AAAA   ATOM   1535   C   SER   A   196   11.254   62.049   12.268   1.00   50.00   AAAA   ATOM   1535   C   SER   A   196   11.254   62.049   12.268   1.00   50.00   AAAA   ATOM   1535   C   SER   A   196   10.294   62.049   12.268   1.00   60.00   AAAA   ATOM   1530   C   SER   A   198   10.105   55.028   12.100   40.01													
ATOM 1516 CA GLN A 194 10.214 67.554 5.820 1.00 55.29 AAAA ATOM 1517 CB GLN A 194 10.214 67.554 5.179 1.00 54.92 AAAA ATOM 1519 CD GLN A 194 10.515 67.855 3.747 1.00 57.71 AAAA ATOM 1519 CD GLN A 194 9.850 66.912 2.819 1.00 60.36 AAAA ATOM 1520 OE1 GLN A 194 9.850 66.922 2.819 1.00 60.36 AAAA ATOM 1521 NEZ GLN A 194 9.850 66.923 3.224 1.00 51.35 AAAA ATOM 1521 NEZ GLN A 194 9.854 67.322 1.560 1.00 60.88 AAAAA ATOM 1523 O GLN A 194 9.854 67.322 1.560 1.00 55.43 AAAA ATOM 1523 O GLN A 194 9.137 65.465 6.521 1.00 55.43 AAAA ATOM 1523 N CYS A 195 11.072 64.593 7.249 1.00 54.67 AAAA ATOM 1525 C C CYS A 195 11.072 64.593 7.249 1.00 54.67 AAAA ATOM 1525 C C CYS A 195 11.072 63.516 7.990 1.00 54.67 AAAA ATOM 1526 C CYS A 195 12.146 63.075 9.235 1.00 52.85 AAAA ATOM 1527 O CYS A 195 12.146 63.075 9.235 1.00 52.85 AAAA ATOM 1529 SG CYS A 195 10.277 62.301 7.095 1.00 54.17 AAAA ATOM 1529 SG CYS A 195 10.277 62.301 7.095 1.00 54.17 AAAA ATOM 1529 SG CYS A 195 10.278 62.301 7.095 1.00 54.17 AAAA ATOM 1530 CA SER A 196 11.253 63.061 11.650 1.00 51.42 AAAAA ATOM 1531 CA SER A 196 11.254 63.061 11.650 1.00 51.42 AAAAA ATOM 1531 CA SER A 196 11.253 63.061 11.650 1.00 51.42 AAAAA ATOM 1531 CA SER A 196 11.254 63.852 13.670 1.00 51.42 AAAAA ATOM 1535 C SER A 196 11.254 63.852 13.670 1.00 51.42 AAAAA ATOM 1535 C SER A 196 12.304 63.852 13.670 1.00 51.42 AAAAA ATOM 1536 N GLY A 197 10.388 58.619 11.650 1.00 47.03 AAAA ATOM 1536 N GLY A 197 10.388 58.619 11.600 1.00 47.03 AAAA ATOM 1536 N GLY A 197 10.388 58.619 11.00 1.00 47.01 AAAA ATOM 1537 C SER A 196 10.394 62.094 12.268 1.00 50.00 AAAA ATOM 1536 C SER A 196 10.394 10.00 60.382 13.00 40.00 47.41 AAAA ATOM 1537 C SER A 196 10.394 62.094 12.268 1.00 50.00 AAAA ATOM 1536 N GLY A 197 10.388 58.619 11.00 1.00 47.01 AAAA ATOM 1537 C SER A 196 10.394 62.094 12.268 1.00 40.00 47.31 AAAA ATOM 1537 C SER A 198 10.505 55.055 10.00 47.03 AAAA ATOM 1537 C SER A 198 10.505 55.055 10.00 47.03 AAAA ATOM 1537 C SER A 198 10.366 55.055 10.00 47.03 AAAA ATOM 1537 C SER A 198 10.00 55.028 12.00 40													
TOTOM   1517   CB   GLN   A 194   10.515   67.854   5.179   1.00   54.92   AAAA   ATOM   1518   CG   GLN   A 194   10.515   67.855   3.747   1.00   57.71   AAAA   ATOM   1519   CD   GLN   A 194   9.806   66.912   2.819   1.00   60.36   AAAA   ATOM   1521   NEZ   GLN   A 194   9.654   67.322   1.560   1.00   60.88   AAAA   ATOM   1521   NEZ   GLN   A 194   9.654   67.322   1.560   1.00   55.39   AAAA   ATOM   1521   NEZ   GLN   A 194   10.370   65.466   6.521   1.00   55.39   AAAA   ATOM   1522   C   GLN   A 194   10.370   65.466   6.521   1.00   55.39   AAAA   ATOM   1524   N   CYS   A 195   11.072   64.553   7.249   1.00   54.67   AAAA   ATOM   1526   C   CYS   A 195   11.072   64.553   7.249   1.00   54.67   AAAA   ATOM   1526   C   CYS   A 195   11.144   63.075   9.235   1.00   54.63   AAAA   ATOM   1526   C   CYS   A 195   10.227   62.512   1.00   54.28   AAAA   ATOM   1527   O   CYS   A 195   10.227   62.501   7.095   1.00   54.71   AAAA   ATOM   1529   SG   CYS   A 195   10.227   62.501   7.095   1.00   54.71   AAAA   ATOM   1520   N   SER   A 196   10.641   63.462   10.944   10.054   10.052   AAAA   ATOM   1530   N   SER   A 196   11.253   63.061   11.650   1.00   51.48   AAAA   ATOM   1531   CA   SER   A 196   11.253   63.061   11.650   1.00   51.48   AAAA   ATOM   1533   OS   SER   A 196   11.253   63.061   11.650   1.00   51.42   AAAA   ATOM   1533   OS   SER   A 196   11.253   63.061   11.650   1.00   51.42   AAAA   ATOM   1535   OSER   A 196   10.294   62.049   12.268   1.00   50.00   AAAA   ATOM   1535   OSER   A 196   10.294   62.049   12.268   1.00   50.00   AAAA   ATOM   1536   OSER   A 197   10.702   60.792   11.600   1.00   47.01   AAAA   ATOM   1537   CA   GLY   A 197   10.702   60.792   11.600   1.00   47.01   AAAA   ATOM   1537   CA   GLY   A 197   10.702   60.792   11.600   1.00   47.01   AAAA   ATOM   1540   N   ARG   A 198   9.896   55.075   11.281   1.00   40.04   AAAA   ATOM   1541   CA   ARG   A 198   9.896   55.075   11.281   1.00   40.04   AAAA   ATOM   1541   CA   ARG   A 198   9	ATOM		N	GLN	А	194		12.102					
ATOM   1518   CG   GLN A 194   10.515   67.855   3.747   1.00   57.71   AAAA   ATOM   1519   CD   GLN A 194   9.806   66.912   2.819   1.00   60.36   AAAA   AAAA   ATOM   1520   CE   GLN A 194   9.806   66.912   2.819   1.00   60.15   AAAA   ATOM   1521   NEZ   GLN A 194   9.654   67.322   1.560   1.00   60.88   AAAAA   ATOM   1522   C   GLN A 194   9.654   67.322   1.560   1.00   55.43   AAAA   ATOM   1523   O   GLN A 194   9.137   65.455   6.412   1.00   55.43   AAAA   ATOM   1524   N   CYS A 195   11.072   64.593   7.249   1.00   54.67   AAAA   ATOM   1525   CA   CYS A 195   11.072   64.593   7.249   1.00   54.63   AAAA   ATOM   1526   C   CYS A 195   11.072   64.593   7.249   1.00   54.63   AAAA   ATOM   1527   O   CYS A 195   12.146   63.075   9.235   1.00   52.85   AAAA   ATOM   1528   CB   CYS A 195   10.421   63.515   7.990   1.00   54.67   AAAA   ATOM   1528   CB   CYS A 195   10.227   62.301   7.095   1.00   53.28   AAAA   ATOM   1529   SG   CYS A 195   10.227   62.301   7.095   1.00   54.67   AAAA   ATOM   1520   SG   CYS A 195   10.227   62.612   5.825   1.00   52.28   AAAA   ATOM   1530   N   SER A 196   10.641   63.482   10.394   1.00   52.17   AAAA   ATOM   1531   CA   SER A 196   11.253   63.061   11.650   1.00   51.48   AAAA   ATOM   1534   C   SER A 196   12.253   63.061   11.650   1.00   51.48   AAAA   ATOM   1534   C   SER A 196   12.246   63.982   12.268   1.00   50.00   AAAAA   ATOM   1535   N   GLY A 197   10.702   60.792   12.268   1.00   50.00   AAAAA   ATOM   1535   N   GLY A 197   10.702   60.792   12.190   1.00   48.26   AAAA   ATOM   1537   CA   GLY A 197   10.386   S6.619   11.693   1.00   47.04   AAAA   ATOM   1537   CA   GLY A 197   10.386   S6.619   1.00   47.04   AAAA   ATOM   1530   N   GLY A 197   10.386   S6.619   1.00   47.04   AAAA   ATOM   1540   C   SRG A 198   10.150   50.657   11.281   1.00   40.22   AAAA   ATOM   1540   C   SRG A 198   10.150   50.657   11.291   1.00   47.04   AAAA   ATOM   1540   C   SRG A 198   10.150   50.657   11.291   1.00   47.04   AAAA   ATOM	ATOM	1516	CA	GLN	Α	194		11.173	66.547	5.820	1.00	55.29	AAAA
ATOM 1519 CD CIN A 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 OEI GLN A 194 9.656 67.322 1.560 1.00 61.15 AAAA ATOM 1521 NE2 GLN A 194 9.656 67.322 1.560 1.00 61.88 AAAA ATOM 1521 NE2 GLN A 194 9.656 67.322 1.560 1.00 55.43 AAAA ATOM 1522 C GLN A 194 10.370 65.455 6.412 1.00 55.43 AAAA ATOM 1523 O GLN A 194 9.137 65.455 6.412 1.00 55.43 AAAA ATOM 1524 N CYS A 195 11.072 64.593 7.249 1.00 54.67 AAAA ATOM 1525 CA CYS A 195 11.072 64.593 7.249 1.00 54.67 AAAA ATOM 1526 C CYS A 195 11.144 63.075 9.235 1.00 52.85 AAAA ATOM 1527 O CYS A 195 11.144 63.075 9.235 1.00 52.85 AAAA ATOM 1528 CB CYS A 195 10.227 62.301 7.095 1.00 54.71 AAAA ATOM 1529 SG CYS A 195 10.227 62.301 7.095 1.00 55.28 AAAA ATOM 1529 SG CYS A 195 10.227 62.301 7.095 1.00 55.28 AAAA ATOM 1531 CA SER A 196 11.253 63.061 11.650 1.00 51.48 AAAA ATOM 1532 CB SER A 196 11.471 64.243 11.05 51.40 55.24 AAAA ATOM 1533 OG SER A 196 11.471 64.243 11.05 51.00 55.42 AAAA ATOM 1533 OG SER A 196 11.471 64.243 12.591 1.00 52.17 AAAA ATOM 1533 OF SER A 196 12.044 62.049 12.268 1.00 51.42 AAAA ATOM 1535 O SER A 196 10.044 62.049 12.268 1.00 50.142 AAAA ATOM 1535 O SER A 196 10.294 62.049 12.268 1.00 50.142 AAAA ATOM 1535 O SER A 196 10.294 62.049 12.268 1.00 50.142 AAAA ATOM 1536 C SER A 196 10.294 62.049 12.268 1.00 50.00 AAAA ATOM 1537 CA GLY A 197 10.702 60.792 12.190 1.00 49.13 AAAA ATOM 1536 C SER A 196 10.294 62.049 11.693 1.00 47.03 AAAA ATOM 1536 C SER A 196 10.294 62.049 11.693 1.00 50.142 AAAA ATOM 1537 CA GLY A 197 10.388 58.636 11.003 1.00 47.03 AAAA ATOM 1537 CA GLY A 197 10.388 58.636 11.003 1.00 47.03 AAAA ATOM 1537 CA GLY A 197 10.388 58.636 11.003 1.00 47.03 AAAA ATOM 1540 N ARG A 198 10.155 55.253 13.206 1.00 47.41 AAAAA ATOM 1540 N ARG A 198 10.155 55.253 13.206 1.00 47.41 AAAAA ATOM 1540 C ARG A 198 10.155 55.253 13.206 1.00 47.01 AAAA ATOM 1540 C ARG A 198 10.155 55.253 13.206 1.00 47.01 AAAA ATOM 1540 C ARG A 198 10.155 55.253 13.206 1.00 44.22 AAAA ATOM 1551 N CYS A 199 10.055 56.655 9.324 1.00 48.05 AAAA ATOM 1551 N CYS A 199 10.056 56.1	ATOM	1517	CB	GLN	Α	194		10.214	67.554	5.179	1.00	54.92	, AAAA
ATOM 1519 CD GLN A 194 9.806 66.912 2.819 1.00 60.36 AAAA ATOM 1520 OEI GLN A 194 9.390 65.823 3.224 1.00 61.55 A3 AAAA ATOM 1521 NE2 GLN A 194 9.656 67.322 1.560 1.00 60.88 AAAA ATOM 1521 NE2 GLN A 194 10.370 65.456 6.521 1.00 55.43 AAAA ATOM 1522 C GLN A 194 9.157 65.455 6.412 1.00 55.43 AAAA ATOM 1524 N CYS A 195 11.072 64.593 7.249 1.00 54.67 AAAA ATOM 1525 CA CYS A 195 10.421 63.516 7.990 1.00 54.67 AAAA ATOM 1526 C CYS A 195 10.421 63.516 7.990 1.00 54.67 AAAA ATOM 1527 O CYS A 195 10.421 63.516 7.990 1.00 54.67 AAAA ATOM 1528 CB CYS A 195 10.421 63.516 62.378 9.152 1.00 52.85 AAAA ATOM 1528 CB CYS A 195 10.427 62.301 7.095 1.00 54.71 AAAA ATOM 1529 SG CYS A 195 10.227 62.301 7.095 1.00 54.71 AAAA ATOM 1529 SG CYS A 195 8.977 62.612 5.825 1.00 55.28 AAAA ATOM 1531 CA SER A 196 10.641 63.482 10.394 1.00 52.12 AAAA ATOM 1531 CA SER A 196 11.471 64.243 11.055 1.00 51.48 AAAA ATOM 1533 OG SER A 196 11.471 64.243 11.591 1.00 52.17 AAAA ATOM 1533 OG SER A 196 12.04 63.852 13.670 1.00 51.42 AAAA ATOM 1534 C SER A 196 12.04 62.049 12.268 1.00 51.42 AAAA ATOM 1535 C SER A 196 10.249 62.049 12.268 1.00 50.142 AAAA ATOM 1536 C SER A 196 10.294 62.049 12.268 1.00 50.00 AAAA ATOM 1537 CA GLY A 197 10.388 58.619 11.471 64.243 10.00 50.00 AAAA ATOM 1537 CA GLY A 197 10.388 58.636 11.003 1.00 47.03 AAAA ATOM 1536 C GLY A 197 10.388 58.636 11.003 1.00 47.41 AAAAA ATOM 1540 N ARG A 198 10.155 55.253 13.00 47.03 AAAA ATOM 1540 N ARG A 198 10.155 55.253 13.00 47.03 AAAA ATOM 1540 N ARG A 198 10.155 55.253 13.00 47.01 4.00 48.23 AAAA ATOM 1540 N ARG A 198 10.155 55.253 13.00 47.01 4.00 48.23 AAAA ATOM 1540 N ARG A 198 10.155 55.253 13.00 1.00 47.41 AAAA ATOM 1540 N ARG A 198 10.155 55.253 13.00 1.00 47.41 AAAA ATOM 1540 N ARG A 198 10.155 55.253 13.00 1.00 47.41 AAAA ATOM 1540 N ARG A 198 10.155 55.253 13.00 1.00 47.71 AAAA ATOM 1540 N ARG A 198 10.155 55.253 13.00 1.00 47.71 AAAA ATOM 1540 N ARG A 198 10.155 55.253 13.00 1.00 47.71 AAAA ATOM 1551 N CYS A 199 10.38 56.615 11.00 1.00 44.22 AAAA ATOM 1554 N AAGA A 198 12.373 54	ATOM	1518	CG	GLN	Α	194		10.515	67.855	3.747	1.00	57.71	AAAA
ATOM 1520 OE1 GLN A 194 9.390 65.823 3.224 1.00 61.15 AAAA ATOM 1521 NE2 GLN A 194 9.654 67.322 1.560 1.00 60.88 AAAA ATOM 1522 C GLN A 194 10.370 65.466 67.321 1.00 55.43 AAAA ATOM 1523 O GLN A 194 9.157 65.455 6.412 1.00 55.539 AAAA ATOM 1524 N CYS A 195 11.007 64.535 7.249 1.00 54.03 AAAA ATOM 1525 CA CYS A 195 11.007 64.536 7.299 1.00 54.03 AAAA ATOM 1526 C CYS A 195 11.007 64.539 9.255 1.00 55.28 AAAA ATOM 1527 O CYS A 195 11.107 62.312 7.299 1.00 54.03 AAAA ATOM 1527 O CYS A 195 11.104 63.075 9.235 1.00 55.28 AAAA ATOM 1528 CB CYS A 195 10.227 62.301 7.095 1.00 55.28 AAAA ATOM 1528 CB CYS A 195 10.227 62.301 7.095 1.00 55.28 AAAA ATOM 1530 N SER A 196 11.253 63.061 11.650 1.00 51.13 AAAA ATOM 1531 CA SER A 196 11.253 63.061 11.650 1.00 51.21 AAAA ATOM 1532 CB SER A 196 11.253 63.061 11.650 1.00 51.13 AAAA ATOM 1533 OG SER A 196 11.253 63.061 11.650 1.00 51.13 AAAA ATOM 1534 C SER A 196 12.304 63.852 13.670 1.00 51.17 AAAA ATOM 1535 N GLY A 197 10.702 60.792 12.268 1.00 50.00 AAAA ATOM 1535 N GLY A 197 10.702 60.792 12.268 1.00 50.00 AAAA ATOM 1536 N GLY A 197 10.702 60.792 12.190 1.00 49.13 AAAA ATOM 1536 C GLY A 197 10.38 58.619 11.693 1.00 47.03 AAAA ATOM 1536 C GLY A 197 10.38 58.619 11.693 1.00 47.03 AAAA ATOM 1536 C GLY A 197 10.38 58.619 11.693 1.00 47.03 AAAA ATOM 1540 N ARG A 198 10.150 55.028 11.600 1.00 44.22 AAAA ATOM 1541 CA ARG A 198 10.150 55.028 11.600 1.00 44.22 AAAA ATOM 1541 CA ARG A 198 10.150 55.028 11.00 10.00 48.23 AAAA ATOM 1541 CA ARG A 198 10.150 55.028 11.00 10.00 48.23 AAAA ATOM 1541 CA ARG A 198 10.150 55.028 11.291 1.00 47.03 AAAA ATOM 1541 CA ARG A 198 10.150 55.028 13.300 1.00 48.23 AAAA ATOM 1541 CA ARG A 198 10.150 55.028 13.300 1.00 48.23 AAAA ATOM 1541 CA ARG A 198 10.150 55.028 13.300 1.00 44.22 AAAA ATOM 1541 CA ARG A 198 10.150 55.028 13.300 1.00 44.22 AAAA ATOM 1545 CA ARG A 198 10.150 55.028 13.300 1.00 44.22 AAAA ATOM 1545 CA ARG A 198 10.150 55.028 13.300 1.00 44.22 AAAA ATOM 1545 CA ARG A 198 10.305 55.028 13.300 1.00 44.22 AAAA ATOM 1555 CA CYS A 199 10.38 56.94											1 00	60.36	
ATOM   1521   NEZ GIN   A 194   9,654   67.322   1.560   1.00   60.88   AAAA   ATOM   1523   O GIN   A 194   10.370   65.466   6.521   1.00   55.43   AAAA   ATOM   1523   O GIN   A 194   9,137   65.435   6.412   1.00   55.43   AAAA   ATOM   1525   CA   CX   A 195   11.072   64.593   7.249   1.00   54.67   AAAA   ATOM   1525   CA   CX   A 195   10.421   63.516   7.990   1.00   54.67   AAAA   ATOM   1526   C   CX   A 195   10.421   63.516   7.990   1.00   54.67   AAAA   ATOM   1527   O   CYS   A 195   10.421   63.516   7.990   1.00   52.85   AAAA   ATOM   1528   CB   CX   A 195   12.146   62.378   9.152   1.00   52.85   AAAA   ATOM   1529   CX   A 195   10.227   62.301   7.995   1.00   54.71   AAAA   ATOM   1530   N   SER   A 196   10.641   63.482   10.394   1.00   52.28   AAAA   ATOM   1531   CA   SER   A 196   11.471   64.243   11.605   1.00   51.48   AAAA   ATOM   1533   OG   SER   A 196   11.471   64.243   12.591   1.00   52.14   AAAA   ATOM   1533   OG   SER   A 196   12.304   63.852   13.670   1.00   51.42   AAAA   ATOM   1535   O   SER   A 196   10.641   63.482   13.670   1.00   51.42   AAAA   ATOM   1536   N   GIY   A 197   10.702   60.792   12.190   1.00   48.26   AAAA   ATOM   1536   N   GIY   A 197   10.388   58.619   11.693   1.00   47.41   AAAA   ATOM   1538   C   GIY   A 197   10.388   58.619   11.693   1.00   47.41   AAAA   ATOM   1538   C   GIY   A 197   10.388   58.619   11.693   1.00   47.41   AAAA   ATOM   1538   C   GIY   A 197   10.388   58.619   11.693   1.00   47.41   AAAA   ATOM   1540   C   ARG   A 198   10.150   55.028   12.797   1.00   48.22   AAAA   ATOM   1541   CA   ARG   A 198   10.150   55.028   12.790   1.00   48.23   AAAA   ATOM   1541   CA   ARG   A 198   10.150   55.028   12.790   1.00   47.41   AAAA   ATOM   1545   CG   ARG   A 198   10.150   55.028   12.790   1.00   47.41   AAAA   ATOM   1545   CG   ARG   A 198   10.150   55.028   12.790   1.00   47.41   AAAA   ATOM   1546   CG   ARG   A 198   11.695   55.255   13.206   1.00   47.41   AAAA   ATOM   1546   CG   ARG   A 198													
ATOM 1522 C GLN A 194 19.370 65.466 6.521 1.00 55.43 AAAA ATOM 1524 N CYS A 195 11.072 64.553 7.249 1.00 55.43 AAAA ATOM 1525 CA CYS A 195 11.072 64.553 7.249 1.00 54.03 AAAA ATOM 1526 C CYS A 195 11.072 64.553 7.249 1.00 54.03 AAAA ATOM 1526 C CYS A 195 11.146 63.075 9.235 1.00 52.85 AAAA ATOM 1527 O CYS A 195 11.146 63.075 9.235 1.00 52.85 AAAA ATOM 1528 CB CYS A 195 10.227 62.301 7.095 1.00 54.03 AAAA ATOM 1528 CB CYS A 195 10.227 62.301 7.095 1.00 54.03 AAAA ATOM 1528 SG CYS A 195 10.227 62.301 7.095 1.00 55.28 AAAA ATOM 1529 SG CYS A 195 10.227 62.301 7.095 1.00 55.28 AAAA ATOM 1529 SG CYS A 195 10.641 63.462 10.394 1.00 55.12 AAAA ATOM 1530 N SER A 196 11.253 63.061 11.650 1.00 51.12 AAAA ATOM 1531 CA SER A 196 11.253 63.061 11.650 1.00 55.17 AAAA ATOM 1532 CB SER A 196 11.253 63.061 11.650 1.00 55.17 AAAA ATOM 1533 CB SER A 196 11.254 62.049 12.268 1.00 55.07 AAAA ATOM 1534 C SER A 196 10.294 62.049 12.268 1.00 55.00 AAAA ATOM 1535 CB SER A 196 10.294 62.049 12.268 1.00 50.00 AAAAA ATOM 1535 C SER A 196 10.294 62.049 12.268 1.00 50.00 AAAAA ATOM 1535 C SER A 196 10.294 62.049 12.268 1.00 49.13 AAAA ATOM 1536 N GLY A 197 10.702 60.792 12.190 1.00 49.13 AAAA ATOM 1537 CA GLY A 197 10.702 60.792 12.190 1.00 44.03 AAAA ATOM 1539 C GLY A 197 10.388 58.619 11.693 1.00 47.03 AAAA ATOM 1539 C GLY A 197 10.388 58.619 11.693 1.00 47.03 AAAA ATOM 1539 C GLY A 197 10.388 58.619 11.693 1.00 47.03 AAAA ATOM 1540 N ARG A 198 10.150 56.457 10.672 1.00 47.03 AAAA ATOM 1540 N ARG A 198 10.150 56.457 10.672 1.00 47.03 AAAA ATOM 1540 N ARG A 198 10.150 56.457 10.672 1.00 47.03 AAAA ATOM 1540 C ARG A 198 10.155 55.253 13.206 1.00 47.73 AAAA ATOM 1540 C ARG A 198 10.155 55.253 13.206 1.00 47.71 AAAA ATOM 1540 C ARG A 198 10.155 55.253 13.206 1.00 47.73 AAAA ATOM 1545 C C ARG A 198 10.155 55.253 13.206 1.00 47.77 AAAA ATOM 1545 C C ARG A 198 10.155 55.253 13.206 1.00 44.22 AAAA ATOM 1545 C C ARG A 198 10.155 55.253 13.206 1.00 44.22 AAAA ATOM 1550 C ARG A 198 10.155 55.255 1.00 46.19 AAAA ATOM 1550 C ARG A 199 10.065 54.479 10													
ATOM         1523         O         CLN A         194         9.137         65.435         6.412         1.00         55.39         AAAA           ATOM         1524         N         CYS         A 195         11.072         64.593         7.249         1.00         54.03         AAAA           ATOM         1525         CA         CYS         A 195         11.042         63.075         7.990         1.00         54.03         AAAA           ATOM         1527         O         CYS         A 195         12.146         62.378         9.152         1.00         53.28         AAAA           ATOM         1528         CB         CYS         A 195         10.027         62.301         7.095         1.00         54.71         AAAA           ATOM         1530         N         SER         A 196         10.641         63.482         10.394         1.00         52.12         AAAA           ATOM         1531         CA         SER         A 196         11.253         63.061         11.650         1.00         51.48         AAAA           ATOM         1533         OG         SER         A 196         10.204         62.049         12.268													
ATOM 1524 N CYS A 195 11.072 64.593 7.249 1.00 54.67 AAAA ATOM 1525 CA CYS A 195 10.421 63.516 7.990 1.00 54.03 AAAA ATOM 1526 C CYS A 195 11.144 63.075 9.235 1.00 52.85 AAAA ATOM 1527 O CYS A 195 11.144 63.075 9.235 1.00 53.28 AAAA ATOM 1528 CB CYS A 195 10.227 62.301 7.095 1.00 54.71 AAAA ATOM 1528 CB CYS A 195 10.227 62.301 7.095 1.00 54.71 AAAA ATOM 1529 SG CYS A 195 10.227 62.301 7.095 1.00 54.71 AAAA ATOM 1530 N SER A 196 10.641 63.482 10.394 1.00 52.12 AAAA ATOM 1531 CA SER A 196 11.253 63.061 11.650 1.00 51.48 AAAA ATOM 1532 CB SER A 196 11.253 63.061 11.650 1.00 51.48 AAAA ATOM 1533 OG SER A 196 12.304 63.852 13.670 1.00 52.17 AAAA ATOM 1533 OG SER A 196 10.294 62.049 12.268 1.00 50.00 AAAA ATOM 1535 O SER A 196 10.294 62.049 12.268 1.00 50.00 AAAA ATOM 1536 N GLY A 197 10.702 60.792 12.190 1.00 48.26 AAAA ATOM 1536 N GLY A 197 10.702 60.792 12.190 1.00 48.26 AAAA ATOM 1536 C GLY A 197 10.702 60.792 12.190 1.00 48.26 AAAA ATOM 1536 N GLY A 197 10.386 58.619 11.690 1.00 47.03 AAAA ATOM 1538 C GLY A 197 10.386 58.619 11.690 1.00 47.03 AAAA ATOM 1536 C GLY A 197 10.386 58.619 11.690 1.00 47.03 AAAA ATOM 1536 C GLY A 197 10.386 58.619 11.690 1.00 47.31 AAAA ATOM 1540 N ARG A 198 9.702 57.492 11.600 1.00 47.31 AAAA ATOM 1540 CB ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1540 CB ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1540 CB ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1540 CB ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1540 CB ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1540 CB ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1540 CB ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1540 CB ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1540 CB ARG A 198 10.150 55.025 1.00 48.22 AAAA ATOM 1554 CB ARG A 198 10.150 55.025 1.00 48.22 AAAA ATOM 1557 N ARG A 198 10.650 56.457 10.672 1.00 47.77 AAAA ATOM 1557 N ARG A 198 13.625 53.938 13.427 1.00 41.82 AAAA ATOM 1558 C CYS A 199 9.055 54.644 6.359 1.00 47.77 AAAA ATOM 1555 C CYS A 199 9.055 54.644 6.359 1.00	MOTA	1522	С										
ATOM 1525 CA CYS A 195 10.421 63.516 7.990 1.00 54.03 AAAA ATOM 1526 C CYS A 195 11.144 63.075 9.235 1.00 52.85 AAAA ATOM 1527 0 CYS A 195 11.146 62.378 9.152 1.00 53.28 AAAA ATOM 1528 CB CYS A 195 10.227 62.301 7.095 1.00 54.71 AAAA ATOM 1529 SG CYS A 195 10.227 62.301 7.095 1.00 54.71 AAAA ATOM 1529 SG CYS A 195 10.227 62.301 7.095 1.00 54.71 AAAA ATOM 1530 N SER A 196 10.641 63.482 10.394 1.00 52.12 AAAA ATOM 1531 CA SER A 196 11.253 63.061 11.650 1.00 51.48 AAAA ATOM 1532 CB SER A 196 11.253 63.061 11.650 1.00 51.48 AAAA ATOM 1533 OG SER A 196 11.253 63.061 11.050 1.00 51.42 AAAA ATOM 1533 OG SER A 196 10.294 62.049 12.268 1.00 50.00 AAAA ATOM 1535 O SER A 196 10.294 62.049 12.268 1.00 50.00 50.00 AAAA ATOM 1535 O SER A 196 9.230 62.398 12.777 1.00 49.13 AAAA ATOM 1535 N GLY A 197 10.702 60.792 12.190 1.00 48.26 AAAA ATOM 1535 C G GLY A 197 9.919 59.676 12.663 1.00 47.03 AAAA ATOM 1538 C GLY A 197 10.388 58.619 11.693 1.00 47.41 AAAA ATOM 1538 C GLY A 197 10.388 58.619 11.693 1.00 47.41 AAAA ATOM 1530 O GLY A 197 11.383 58.836 11.003 1.00 47.41 AAAA ATOM 1540 N ARG A 198 9.702 57.492 11.600 1.00 47.31 AAAA ATOM 1540 CA ARG A 198 9.702 57.492 11.600 1.00 47.31 AAAA ATOM 1540 CA ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1540 CA ARG A 198 10.150 55.028 12.790 1.00 46.93 AAAA ATOM 1540 CA ARG A 198 11.555 5.253 13.206 1.00 47.64 AAAA ATOM 1540 CA ARG A 198 11.555 5.253 13.206 1.00 47.64 AAAA ATOM 1540 CA ARG A 198 11.555 5.253 13.206 1.00 47.74 AAAA ATOM 1540 CD ARG A 198 11.555 5.253 13.206 1.00 47.74 AAAA ATOM 1540 CD ARG A 198 11.555 5.253 13.206 1.00 47.74 AAAA ATOM 1540 CD ARG A 198 11.555 5.253 13.206 1.00 47.74 AAAA ATOM 1540 CD ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1540 CD ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1550 CA ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1555 CA CYS A 199 10.065 56.111 8.255 1.00 48.27 AAAA ATOM 1556 CA CYS A 199 10.065 56.111 8.255 1.00 48.27 AAAA ATOM 1557 N ARG A 200 9.605 54.499 1.00 40.04 1.00 42.54 AAAA ATOM 1556 CA CYS A 199 10	ATOM	1523	0	GLN	Α	194		9.137	65.435	6.412	1.00	55.39	AAAA
ATOM 1526 C CYS A 195 11.144 63.075 9.235 1.00 52.85 AAAA ATOM 1527 0 CYS A 195 10.227 62.378 9.152 1.00 53.28 AAAA ATOM 1528 CB CYS A 195 10.227 62.301 7.095 1.00 54.71 AAAA ATOM 1529 SG CYS A 195 8.977 62.612 10.394 1.00 52.12 AAAA ATOM 1530 N SER A 196 10.641 63.482 10.394 1.00 52.12 AAAA ATOM 1531 CA SER A 196 11.253 63.061 11.650 1.00 51.48 AAAA ATOM 1533 CB SER A 196 11.471 64.243 12.591 1.00 52.17 AAAA ATOM 1533 CB SER A 196 11.471 64.243 12.591 1.00 52.17 AAAA ATOM 1534 C SER A 196 10.294 63.852 13.670 1.00 51.42 AAAA ATOM 1535 O SER A 196 10.294 62.049 12.268 1.00 50.00 AAAA ATOM 1535 O SER A 196 9.230 62.398 12.777 1.00 49.13 AAAA ATOM 1535 O SER A 196 9.230 62.398 12.777 1.00 49.13 AAAA ATOM 1535 O SER A 197 10.702 60.792 12.190 1.00 48.26 AAAA ATOM 1535 C GLY A 197 10.380 58.619 11.693 1.00 47.03 AAAA ATOM 1538 C GLY A 197 10.380 58.619 11.693 1.00 47.03 AAAA ATOM 1538 C GLY A 197 11.383 58.836 11.003 1.00 47.03 AAAA ATOM 1536 O GLY A 197 11.383 58.836 11.003 1.00 47.03 AAAA ATOM 1536 C GLY A 197 11.383 58.836 11.003 1.00 47.03 AAAA ATOM 1541 CA ARG A 198 9.702 57.492 11.600 1.00 47.31 AAAA ATOM 1541 CA ARG A 198 9.702 57.492 11.600 1.00 47.31 AAAA ATOM 1541 CA ARG A 198 10.150 55.0457 10.672 1.00 47.64 AAAA ATOM 1541 CA ARG A 198 10.150 55.0457 10.672 1.00 47.64 AAAA ATOM 1540 CB ARG A 198 10.150 55.055 11.281 1.00 46.93 AAAA ATOM 1540 CB ARG A 198 10.150 55.055 11.281 1.00 47.64 AAAA ATOM 1540 CD ARG A 198 10.105 55.052 12.790 1.00 46.12 AAAA ATOM 1540 CD ARG A 198 10.105 55.052 12.790 1.00 46.12 AAAA ATOM 1540 CD ARG A 198 10.105 55.053 13.206 1.00 47.04 AAAA ATOM 1547 NHI ARG A 198 11.555 55.553 13.206 1.00 41.82 AAAA ATOM 1547 NHI ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1557 N CYS A 199 10.055 51.128 13.100 41.00 42.54 AAAA ATOM 1557 N CYS A 199 10.055 51.11 8.255 1.00 48.27 AAAA ATOM 1559 CA RG A 198 13.625 53.938 13.427 1.00 41.82 AAAA ATOM 1550 CA RG A 198 13.625 53.938 13.427 1.00 41.82 AAAA ATOM 1550 CA RG A 200 9.60 54.499 5.203 1.00 40.11 AAAA ATOM 1550 CA RG A 200 7.728 51.8	ATOM	1524	N	CYS	Α	195		11.072	64.593	7.249	1.00	54.67	AAAA
ATOM         1526         C         CYS         A         195         11.144         63.075         9.235         1.00         52.85         AAAA           ATOM         1527         O         CYS         A         195         12.146         62.378         9.152         1.00         53.28         AAAA           ATOM         1529         GC         CYS         A         195         10.227         62.301         7.095         1.00         54.71         AAAA           ATOM         1530         N         SER         A         196         10.641         63.482         10.09         11.48         AAAA           ATOM         1531         CA         SER         A         196         11.253         63.061         11.650         1.00         51.48         AAAA           ATOM         1533         CG         SER         A         196         12.304         63.852         13.670         10.0         51.42         AAAA           ATOM         1535         O         SER         A         196         9.230         62.049         12.268         1.00         50.00         AAAA           ATOM         1536         C         SER	ATOM	1525	CA	CYS	Α	195		10.421	63.516	7.990	1.00	54.03	AAAA
ATOM 1528 CB CYS A 195 10.227 62.301 7.095 1.00 53.28 AAAA ATOM 1528 CB CYS A 195 10.227 62.301 7.095 1.00 54.71 AAAA ATOM 1529 SG CYS A 195 8.977 62.612 5.825 1.00 56.28 AAAA ATOM 1530 N SER A 196 11.253 63.061 11.650 1.00 51.48 AAAA ATOM 1531 CA SER A 196 11.253 63.061 11.650 1.00 51.48 AAAA ATOM 1532 CB SER A 196 11.253 63.061 11.650 1.00 51.48 AAAA ATOM 1533 OG SER A 196 11.271 64.243 12.591 1.00 52.17 AAAA ATOM 1534 C SER A 196 12.304 63.852 13.670 1.00 51.42 AAAA ATOM 1534 C SER A 196 12.304 63.852 13.670 1.00 51.42 AAAA ATOM 1534 C SER A 196 10.294 62.049 12.268 1.00 50.00 AAAA ATOM 1535 O SER A 196 10.294 62.049 12.268 1.00 50.00 AAAA ATOM 1535 C GIY A 197 10.306 62.398 12.777 1.00 49.13 AAAA ATOM 1537 CA GIY A 197 10.388 58.619 11.693 1.00 47.03 AAAA ATOM 1538 C GIY A 197 10.388 58.619 11.693 1.00 47.03 AAAA ATOM 1539 O GIY A 197 10.388 58.619 11.693 1.00 47.01 AAAA ATOM 1540 CA ARGA 198 9.702 57.492 11.600 1.00 47.31 AAAA ATOM 1541 CA ARGA 198 9.702 57.492 11.600 1.00 47.31 AAAA ATOM 1541 CA ARGA 198 9.702 57.492 11.600 1.00 47.64 AAAA ATOM 1542 CB ARG A 198 9.896 55.075 11.281 1.00 46.93 AAAA ATOM 1543 CG ARG A 198 10.155 55.028 12.790 1.00 46.93 AAAA ATOM 1545 NE ARG A 198 10.155 55.028 12.790 1.00 46.12 AAAA ATOM 1545 NE ARG A 198 11.555 55.253 13.206 1.00 47.64 AAAA ATOM 1546 CZ ARG A 198 11.555 55.253 13.206 1.00 47.70 AAAA ATOM 1546 CZ ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1546 CZ ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1546 CZ ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1546 NHZ ARG A 198 13.625 53.938 13.427 1.00 41.82 AAAA ATOM 1550 O ARG A 198 13.625 53.938 13.427 1.00 41.82 AAAA ATOM 1550 O ARG A 198 13.625 53.938 13.427 1.00 41.82 AAAA ATOM 1550 O ARG A 198 8.327 57.111 9.251 1.00 44.22 AAAA ATOM 1550 O ARG A 198 8.327 57.111 9.251 1.00 44.22 AAAA ATOM 1550 O ARG A 198 8.327 57.111 9.251 1.00 44.22 AAAA ATOM 1550 O ARG A 198 8.327 57.111 9.251 1.00 44.22 AAAA ATOM 1550 O ARG A 200 9.606 56.457 1.00 46.12 AAAA ATOM 1550 O ARG A 200 9.606 56.457 1.00 46.03 A							:						AAAA
ATOM 1528 CB CYS A 195													
ATOM													
ATOM 1530 N SER A 196 10.641 63.482 10.394 1.00 52.12 AAAA ATOM 1531 CA SER A 196 11.253 63.061 11.650 1.00 51.48 AAAA ATOM 1532 CB SER A 196 11.471 64.243 12.511 1.00 52.17 AAAA ATOM 1532 CB SER A 196 12.304 63.852 13.670 1.00 51.42 AAAA ATOM 1534 C SER A 196 10.294 62.049 12.268 1.00 50.00 AAAA ATOM 1535 O SER A 196 9.230 62.398 12.777 1.00 49.13 AAAA ATOM 1536 N GLY A 197 10.702 60.792 12.190 1.00 48.26 AAAA ATOM 1537 CA GLY A 197 10.388 58.619 11.693 1.00 47.03 AAAA ATOM 1538 C GLY A 197 10.388 58.619 11.693 1.00 47.41 AAAA ATOM 1539 O GLY A 197 11.383 58.836 11.003 1.00 47.41 AAAA ATOM 1540 N ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1541 CA ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1542 CB ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1542 CB ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1544 CD ARG A 198 10.150 55.028 12.790 1.00 44.22 AAAA ATOM 1545 NE ARG A 198 11.555 55.263 13.206 1.00 44.22 AAAA ATOM 1545 NE ARG A 198 12.373 54.062 13.004 1.00 42.24 AAAA ATOM 1546 CZ ARG A 198 12.373 54.062 13.004 1.00 42.24 AAAA ATOM 1546 CZ ARG A 198 12.373 54.062 13.004 1.00 42.24 AAAA ATOM 1546 CZ ARG A 198 14.208 54.929 14.081 1.00 41.80 AAAA ATOM 1547 NH 1 ARG A 198 14.208 54.929 14.081 1.00 41.80 AAAA ATOM 1550 O ARG A 198 13.625 53.938 13.427 1.00 41.82 AAAA ATOM 1550 O ARG A 198 8.327 57.111 9.251 1.00 47.77 AAAA ATOM 1551 N CYS A 199 9.435 56.585 9.324 1.00 47.77 AAAA ATOM 1550 O ARG A 198 8.327 57.111 9.251 1.00 47.77 AAAA ATOM 1550 C ARG A 198 8.327 57.111 9.251 1.00 47.77 AAAA ATOM 1550 C ARG A 198 8.327 57.111 9.251 1.00 47.77 AAAA ATOM 1550 C ARG A 198 8.327 57.111 9.251 1.00 47.77 AAAA ATOM 1550 C ARG A 198 8.327 57.111 9.251 1.00 47.77 AAAA ATOM 1551 N CYS A 199 9.055 54.844 6.359 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.77 AAAA ATOM 1550 CA ARG A 200 9.601 54.499 5.203 1.00 46.61 AAAA ATOM 1550 CA ARG A 200 9.601 54.499 5.203 1.00 46.61 AAAA ATOM 1556 CB ARG A 200 7.722 53.229 4.569 1.00 44.52 AAAA ATOM 1556 CA ARG A 200 7.722 53.229 4.569 1.0													
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ATOM 1534 C SER A 196 12.304 63.852 13.670 1.00 51.42 AAAA ATOM 1535 C SER A 196 10.294 62.049 12.268 1.00 50.00 AAAA ATOM 1535 O SER A 196 9.230 62.398 12.777 1.00 49.13 AAAA ATOM 1536 N GLY A 197 10.702 60.792 12.190 1.00 48.26 AAAA ATOM 1538 C GLY A 197 9.919 59.676 12.663 1.00 47.03 AAAA ATOM 1538 C GLY A 197 11.383 58.836 11.003 1.00 47.01 AAAA ATOM 1540 N ARG A 198 9.702 57.492 11.600 1.00 48.23 AAAA ATOM 1541 CA ARG A 198 10.150 56.457 10.672 1.00 47.51 AAAA ATOM 1542 CB ARG A 198 10.150 55.028 12.790 1.00 46.93 AAAA ATOM 1540 C ARG A 198 10.150 55.028 12.790 1.00 46.93 AAAA ATOM 1540 C ARG A 198 11.555 55.253 13.206 1.00 47.24 AAAA ATOM 1544 CD ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1545 NE ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1545 NE ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1546 CZ ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1547 NH1 ARG A 198 14.208 54.929 14.081 1.00 41.80 AAAA ATOM 1547 NH1 ARG A 198 14.208 54.929 14.081 1.00 41.80 AAAA ATOM 1557 NH ARG A 198 14.208 54.929 14.081 1.00 41.80 AAAA ATOM 1550 O ARG A 198 8.327 57.111 9.251 1.00 41.33 AAAA ATOM 1550 O ARG A 198 8.327 57.111 9.251 1.00 47.77 AAAA ATOM 1550 C CX S A 199 9.435 56.585 9.324 1.00 48.27 AAAA ATOM 1550 C CX S A 199 9.435 56.585 9.324 1.00 47.77 AAAA ATOM 1550 C CX S A 199 9.435 56.585 9.324 1.00 47.77 AAAA ATOM 1555 CB CX S A 199 9.435 56.585 9.324 1.00 47.77 AAAA ATOM 1555 CB CX S A 199 9.435 56.192 6.945 1.00 47.77 AAAA ATOM 1555 CB CX S A 199 9.435 56.192 6.945 1.00 48.27 AAAA ATOM 1556 CB CX S A 199 9.435 56.192 6.945 1.00 45.21 AAAA ATOM 1556 CB CX S A 199 9.435 56.192 6.945 1.00 46.12 AAAA ATOM 1556 CB CX S A 199 9.435 56.394 1.00 47.77 AAAA ATOM 1556 CB CX S A 199 9.435 56.394 1.00 47.77 AAAA ATOM 1556 CB ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1556 CB ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1556 CB ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1556 CB ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1566 C ARG A 200 4.707 51.817 4.179 1.00 46.33 AAA	ATOM	1531	CA	SER	Α	196		11.253	63.061	11.650	1.00	51.48	AAAA
ATOM 1534 C SER A 196 10.294 62.049 12.268 1.00 50.00 AAAA ATOM 1535 O SER A 196 9.230 62.398 12.777 1.00 49.13 AAAA ATOM 1536 N GLY A 197 10.702 60.792 12.190 1.00 49.26 AAAAA ATOM 1537 CA GLY A 197 9.919 59.676 12.663 1.00 47.03 AAAA ATOM 1538 C GLY A 197 10.388 58.619 11.693 1.00 47.41 AAAA ATOM 1539 O GLY A 197 11.383 58.836 11.003 1.00 48.23 AAAA ATOM 1540 N ARG A 198 9.702 57.492 11.600 1.00 47.31 AAAA ATOM 1541 CA ARG A 198 9.896 55.075 11.281 1.000 46.93 AAAA ATOM 1542 CB ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1544 CD ARG A 198 10.155 55.028 12.790 1.00 46.93 AAAA ATOM 1545 NE ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1546 CZ ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1546 CZ ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1546 CZ ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1546 CZ ARG A 198 14.208 54.929 14.081 1.00 41.82 AAAA ATOM 1549 C ARG A 198 14.300 52.828 13.181 1.00 41.83 AAAA ATOM 1550 O ARG A 198 14.300 52.828 13.181 1.00 41.83 AAAA ATOM 1550 C ARG A 198 8.327 57.111 9.251 1.00 47.77 AAAA ATOM 1550 C ARG A 198 9.435 56.585 9.324 1.00 47.77 AAAA ATOM 1550 C ARG A 198 9.435 56.685 9.324 1.00 47.77 AAAA ATOM 1550 C ARG A 198 9.435 56.565 111 8.255 1.00 48.27 AAAA ATOM 1551 N CYS A 199 9.438 56.192 6.945 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.438 56.192 6.945 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.22 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.22 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.77 AAAA ATOM 1556 CB CYS A 199 12.046 56.350 5.934 1.00 47.77 AAAA ATOM 1556 CB CYS A 199 12.046 56.350 5.934 1.00 47.77 AAAA ATOM 1556 CB CYS A 199 12.046 56.350 5.934 1.00 47.12 AAAA ATOM 1556 CB ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1556 CB ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1566 CB ARG A 200 4.384 53.104 4.076 1.00 4	ATOM	1532	CB	SER	Α	196		11.471	64.243	12.591	1.00	52.17	AAAA
ATOM 1535 C SER A 196 9.230 62.398 12.777 1.00 49.13 AAAA ATOM 1536 N GLY A 197 10.702 60.792 12.190 1.00 48.26 AAAA ATOM 1537 CA GLY A 197 10.388 58.619 11.693 1.00 47.03 AAAA ATOM 1538 C GLY A 197 10.388 58.619 11.693 1.00 47.03 AAAA ATOM 1538 C GLY A 197 11.383 58.836 11.003 1.00 47.41 AAAA ATOM 1539 O GLY A 197 11.383 58.836 11.003 1.00 47.31 AAAA ATOM 1540 N ARG A 198 9.702 57.492 11.600 1.00 47.31 AAAA ATOM 1541 CA ARG A 198 9.896 55.075 11.281 1.00 46.93 AAAA ATOM 1542 CB ARG A 198 9.896 55.075 11.281 1.00 46.93 AAAA ATOM 1544 CD ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1545 NE ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1546 CZ ARG A 198 11.555 55.253 13.206 1.00 42.54 AAAA ATOM 1546 CZ ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1546 CZ ARG A 198 14.208 54.929 14.081 1.00 41.82 AAAA ATOM 1548 NHZ ARG A 198 14.300 52.828 13.181 1.00 41.83 AAAA ATOM 1549 C ARG A 198 14.300 52.828 13.181 1.00 41.83 AAAA ATOM 1550 O ARG A 198 8.327 57.111 9.251 1.00 47.77 AAAA ATOM 1550 C ARG A 198 9.435 56.585 9.324 1.00 48.05 AAAA ATOM 1550 C ARG A 198 9.435 56.585 9.324 1.00 48.05 AAAA ATOM 1550 C ARG A 198 9.435 56.585 9.324 1.00 47.77 AAAA ATOM 1551 N CYS A 199 9.438 56.192 6.945 1.00 47.77 AAAA ATOM 1552 CA CYS A 199 9.438 56.192 6.945 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 10.065 56.111 8.255 1.00 48.05 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.816 AAAA ATOM 1555 CB CYS A 199 12.046 56.350 5.934 1.00 49.71 AAAA ATOM 1556 CC ARG A 200 9.601 54.499 5.203 1.00 49.81 AAAA ATOM 1556 CC ARG A 200 9.601 54.499 5.203 1.00 49.81 AAAA ATOM 1556 CC ARG A 200 9.262 53.229 4.569 1.00 45.61 AAAA ATOM 1556 CC ARG A 200 9.262 53.229 4.569 1.00 45.61 AAAA ATOM 1566 CA ARG A 200 5.24 54.54 53.154 1.00 46.33 AAAA ATOM 1566 CA ARG A 200 5.24 54.54 53.152 3.148 1.00 46.20 AAAA ATOM 1566 CA ARG A 200 5.24 54.54 53.152 3.148 1.	ATOM	1533	OG	SER	Α	196		12.304	63.852	13.670	1.00	51.42	AAAA
ATOM 1535 O SER A 196 9.230 62.398 12.777 1.00 49.13 AAAA ATOM 1536 N GLY A 197 10.702 60.792 12.190 1.00 48.26 AAAA ATOM 1537 CA GLY A 197 9.919 59.676 12.663 1.00 47.03 AAAA ATOM 1538 C GLY A 197 10.388 58.619 11.693 1.00 47.41 AAAA ATOM 1539 O GLY A 197 11.383 58.836 11.003 1.00 47.41 AAAA ATOM 1540 N ARG A 198 9.702 57.492 11.600 1.00 47.64 AAAA ATOM 1541 CA ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1542 CB ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1542 CB ARG A 198 10.150 56.457 10.672 1.00 47.64 AAAA ATOM 1544 CD ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1545 NE ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1546 CZ ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1546 CZ ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1546 CZ ARG A 198 14.300 52.828 13.141 1.00 41.82 AAAA ATOM 1548 NH2 ARG A 198 14.300 52.828 13.141 1.00 41.80 AAAA ATOM 1549 C ARG A 198 14.300 52.828 13.181 1.00 41.83 AAAA ATOM 1550 O ARG A 198 83.27 57.111 9.251 1.00 47.77 AAAA ATOM 1550 O ARG A 198 83.27 57.111 9.251 1.00 47.77 AAAA ATOM 1551 N CYS A 199 9.435 56.585 9.324 1.00 48.05 AAAA ATOM 1555 CB CYS A 199 9.438 56.192 6.945 1.00 48.27 AAAA ATOM 1555 CB CYS A 199 9.438 56.192 6.945 1.00 48.27 AAAA ATOM 1555 CB CYS A 199 9.438 56.192 6.945 1.00 48.27 AAAA ATOM 1555 CB CYS A 199 9.438 56.944 5.980 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.438 56.944 5.980 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.77 AAAA ATOM 1556 CB CYS A 199 9.055 54.846 6.359 1.00 47.77 AAAA ATOM 1556 CB CYS A 199 10.338 56.944 5.980 1.00 49.71 AAAA ATOM 1556 CB CYS A 199 10.338 56.944 5.980 1.00 49.71 AAAA ATOM 1556 CB CYS A 199 10.338 56.944 5.980 1.00 49.71 AAAA ATOM 1556 CB ARG A 200 7.722 53.067 4.546 1.00 46.12 AAAA ATOM 1556 CB ARG A 200 7.722 53.067 4.546 1.00 46.33 AAAA ATOM 1566 CB ARG A 200 4.707 51.817 4.179 1.00 46.65 AAAA ATOM 1566 CB ARG A 200 5.274 54.053 4.317 1.00 44.52 AAAA ATOM 1566 CB ARG A 200 5.274 54.053 4.317 1.00 44.											1.00	50.00	AAAA
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ATOM 1543 CG ARG A 198 10.105 55.028 12.790 1.00 46.12 AAAA ATOM 1544 CD ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1545 NE ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1546 CZ ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1547 NH1 ARG A 198 14.208 54.929 14.081 1.00 41.80 AAAA ATOM 1547 NH1 ARG A 198 14.208 54.929 14.081 1.00 41.80 AAAA ATOM 1549 C ARG A 198 9.435 56.585 9.324 1.00 48.05 AAAA ATOM 1550 O ARG A 198 8.327 57.111 9.251 1.00 47.77 AAAA ATOM 1551 N CYS A 199 10.065 56.111 8.255 1.00 48.27 AAAA ATOM 1551 N CYS A 199 9.438 56.595 1.00 48.27 AAAA ATOM 1552 CA CYS A 199 9.438 56.192 6.945 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.22 AAAA ATOM 1555 CB CYS A 199 8.265 54.127 6.943 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 47.27 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.86 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.86 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.86 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.86 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.81 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.81 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.81 AAAA ATOM 1556 CB CYS A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1556 CB ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1556 CB ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1560 CB ARG A 200 4.707 51.817 4.179 1.00 46.13 AAAA ATOM 1564 NH1 ARG A 200 4.384 53.104 4.076 1.00 46.13 AAAA ATOM 1565 NH2 ARG A 200 4.384 53.104 4.076 1.00 44.55 AAAA ATOM 1566 C ARG A 200 9.816 53.152 3.148 1.00 42.55 AAAA ATOM 1566 N ARG A 200 9.816 53.152 3.148 1.00 42.55 AAAA ATOM 1566 N ARG A 200 9.816 53.152 3.148 1.00 46.20 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 46.33 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 46.33 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1569 CA SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1569 CA SER A 203 10.801 55.222 -0.550 1.00 47.58 AA	ATOM	1541	CA	ARG	Α	198		10.150	56.457	10.672	1.00	47.64	AAAA
ATOM 1543 CG ARG A 198 10.105 55.028 12.790 1.00 46.12 AAAA ATOM 1544 CD ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1545 NE ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1546 CZ ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1547 NH1 ARG A 198 14.208 54.929 14.081 1.00 41.80 AAAA ATOM 1547 NH1 ARG A 198 14.208 54.929 14.081 1.00 41.80 AAAA ATOM 1549 C ARG A 198 9.435 56.585 9.324 1.00 48.05 AAAA ATOM 1550 O ARG A 198 8.327 57.111 9.251 1.00 47.77 AAAA ATOM 1551 N CYS A 199 10.065 56.111 8.255 1.00 48.27 AAAA ATOM 1551 N CYS A 199 9.438 56.595 1.00 48.27 AAAA ATOM 1552 CA CYS A 199 9.438 56.192 6.945 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.22 AAAA ATOM 1555 CB CYS A 199 8.265 54.127 6.943 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 47.27 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.86 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.86 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.86 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.86 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.81 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.81 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.81 AAAA ATOM 1556 CB CYS A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1556 CB ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1556 CB ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1560 CB ARG A 200 4.707 51.817 4.179 1.00 46.13 AAAA ATOM 1564 NH1 ARG A 200 4.384 53.104 4.076 1.00 46.13 AAAA ATOM 1565 NH2 ARG A 200 4.384 53.104 4.076 1.00 44.55 AAAA ATOM 1566 C ARG A 200 9.816 53.152 3.148 1.00 42.55 AAAA ATOM 1566 N ARG A 200 9.816 53.152 3.148 1.00 42.55 AAAA ATOM 1566 N ARG A 200 9.816 53.152 3.148 1.00 46.20 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 46.33 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 46.33 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1569 CA SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1569 CA SER A 203 10.801 55.222 -0.550 1.00 47.58 AA		1542		ARG	Α	198		9.896	55.075	11.281	1.00	46.93	AAAA
ATOM 1544 CD ARG A 198 11.555 55.253 13.206 1.00 44.22 AAAA ATOM 1545 NE ARG A 198 12.373 54.062 13.004 1.00 42.54 AAAA ATOM 1546 CZ ARG A 198 13.625 53.938 13.427 1.00 41.82 AAAA ATOM 1547 NH1 ARG A 198 14.208 54.929 14.081 1.00 41.80 AAAA ATOM 1548 NH2 ARG A 198 14.300 52.828 13.181 1.00 41.80 AAAA ATOM 1549 C ARG A 198 9.435 56.585 9.324 1.00 48.05 AAAA ATOM 1550 O ARG A 198 8.327 57.111 9.251 1.00 47.77 AAAA ATOM 1551 N CYS A 199 10.065 56.111 8.255 1.00 48.27 AAAA ATOM 1552 CA CYS A 199 9.438 56.192 6.945 1.00 48.12 AAAA ATOM 1553 C CYS A 199 9.055 54.844 6.359 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 9.055 54.844 6.359 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.86 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.71 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.71 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.71 AAAA ATOM 1556 CB CYS A 199 12.046 56.350 5.934 1.00 49.71 AAAA ATOM 1556 CB ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1556 CB ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1558 CA ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1560 CG ARG A 200 7.742 53.067 4.544 1.00 45.61 AAAA ATOM 1560 CG ARG A 200 7.228 51.839 3.830 1.00 45.41 AAAA ATOM 1561 CD ARG A 200 4.707 51.817 4.179 1.00 46.13 AAAA ATOM 1563 CZ ARG A 200 4.707 51.817 4.179 1.00 46.13 AAAA ATOM 1565 NH2 ARG A 200 4.707 51.817 4.179 1.00 46.13 AAAA ATOM 1566 C ARG A 200 4.707 51.817 4.179 1.00 46.13 AAAA ATOM 1566 NH2 ARG A 200 4.707 51.817 4.179 1.00 46.55 AAAA ATOM 1566 NH2 ARG A 200 4.707 51.817 4.179 1.00 46.13 AAAA ATOM 1566 NH2 ARG A 200 4.707 51.817 4.179 1.00 46.13 AAAA ATOM 1566 NH2 ARG A 200 4.707 51.817 4.179 1.00 46.13 AAAA ATOM 1566 NH2 ARG A 200 4.707 51.817 4.179 1.00 46.13 AAAA ATOM 1566 NH2 ARG A 200 4.707 51.817 4.179 1.00 46.13 AAAA ATOM 1566 NH2 ARG A 200 5.274 54.053 4.177 2.514 1.00 46.20 AAAA ATOM 1566 NH2 ARG A 200 5.274 54.053 4.179 1.													
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ATOM 1551 N CYS A 199 9.438 56.192 6.945 1.00 48.27 AAAA ATOM 1552 CA CYS A 199 9.438 56.192 6.945 1.00 48.12 AAAA ATOM 1553 C CYS A 199 9.055 54.844 6.359 1.00 47.22 AAAA ATOM 1555 CB CYS A 199 8.265 54.127 6.943 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.86 AAAA ATOM 1556 SG CYS A 199 12.046 56.350 5.934 1.00 49.71 AAAA ATOM 1557 N ARG A 200 9.601 54.499 5.203 1.00 49.71 AAAA ATOM 1559 CB ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1559 CB ARG A 200 7.742 53.067 4.544 1.00 45.61 AAAA ATOM 1560 CG ARG A 200 7.228 51.839 3.830 1.00 45.41 AAAA ATOM 1561 CD ARG A 200 6.019 51.272 4.567 1.00 46.65 AAAA ATOM 1563 CZ ARG A 200 4.707 51.817 4.179 1.00 46.13 AAAA ATOM 1563 CZ ARG A 200 4.384 53.104 4.076 1.00 44.31 AAAA ATOM 1564 NH1 ARG A 200 5.274 54.053 4.317 1.00 44.52 AAAA ATOM 1565 NH2 ARG A 200 3.144 53.442 3.754 1.00 42.55 AAAA ATOM 1566 C ARG A 200 9.816 53.152 3.148 1.00 46.20 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1569 CA SER A 203 11.189 56.209 0.448 1.00 48.12 AAAAA ATOM 1569 CA SER A 203 11.189 56.209 0.448 1.00 48.12	MOTA	1550	0	ARG	A	198		8.327	57.111	9.251	1.00	47.77	AAAA
ATOM 1552 CA CYS A 199 9.438 56.192 6.945 1.00 48.12 AAAA ATOM 1553 C CYS A 199 9.055 54.844 6.359 1.00 47.22 AAAA ATOM 1554 O CYS A 199 8.265 54.127 6.943 1.00 47.77 AAAA ATOM 1555 CB CYS A 199 10.338 56.944 5.980 1.00 49.86 AAAA ATOM 1556 SG CYS A 199 12.046 56.350 5.934 1.00 49.71 AAAA ATOM 1557 N ARG A 200 9.601 54.499 5.203 1.00 46.19 AAAA ATOM 1558 CA ARG A 200 9.262 53.229 4.569 1.00 46.12 AAAA ATOM 1559 CB ARG A 200 7.742 53.067 4.544 1.00 45.61 AAAA ATOM 1550 CG ARG A 200 7.228 51.839 3.830 1.00 45.41 AAAA ATOM 1560 CG ARG A 200 6.019 51.272 4.567 1.00 46.65 AAAA ATOM 1561 CD ARG A 200 6.019 51.272 4.567 1.00 46.65 AAAA ATOM 1563 CZ ARG A 200 4.707 51.817 4.179 1.00 46.13 AAAA ATOM 1563 CZ ARG A 200 5.274 54.053 4.317 1.00 44.52 AAAA ATOM 1564 NH1 ARG A 200 5.274 54.053 4.317 1.00 44.52 AAAA ATOM 1565 NH2 ARG A 200 3.144 53.442 3.754 1.00 42.55 AAAA ATOM 1566 C ARG A 200 9.816 53.152 3.148 1.00 46.20 AAAA ATOM 1567 O ARG A 200 10.078 54.177 2.514 1.00 46.33 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1569 CA SER A 203 11.189 56.209 0.448 1.00 48.12 AAAA										8.255	1.00	48.27	AAAA
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ATOM 1563 CZ ARG A 200 4.384 53.104 4.076 1.00 44.31 AAAA ATOM 1564 NH1 ARG A 200 5.274 54.053 4.317 1.00 44.52 AAAA ATOM 1565 NH2 ARG A 200 3.144 53.442 3.754 1.00 42.55 AAAA ATOM 1566 C ARG A 200 9.816 53.152 3.148 1.00 46.20 AAAA ATOM 1567 O ARG A 200 10.078 54.177 2.514 1.00 46.33 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1569 CA SER A 203 11.189 56.209 0.448 1.00 48.12 AAAA													
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ATOM 1565 NH2 ARG A 200 3.144 53.442 3.754 1.00 42.55 AAAA ATOM 1566 C ARG A 200 9.816 53.152 3.148 1.00 46.20 AAAA ATOM 1567 O ARG A 200 10.078 54.177 2.514 1.00 46.33 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1569 CA SER A 203 11.189 56.209 0.448 1.00 48.12 AAAA													
ATOM 1566 C ARG A 200 9.816 53.152 3.148 1.00 46.20 AAAA ATOM 1567 O ARG A 200 10.078 54.177 2.514 1.00 46.33 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1569 CA SER A 203 11.189 56.209 0.448 1.00 48.12 AAAA													
ATOM 1567 O ARG A 200 10.078 54.177 2.514 1.00 46.33 AAAA ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1569 CA SER A 203 11.189 56.209 0.448 1.00 48.12 AAAA	ATOM	1565	NH2	ARG	Α	200		3.144	53.442	3.754			
ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1569 CA SER A 203 11.189 56.209 0.448 1.00 48.12 AAAA	ATOM	1566	С	ARG	Α	200		9.816	53.152	3.148	1.00	46.20	
ATOM 1568 N SER A 203 10.801 55.222 -0.550 1.00 47.58 AAAA ATOM 1569 CA SER A 203 11.189 56.209 0.448 1.00 48.12 AAAA	ATOM	1567	0	ARG	Α	200		10.078	54.177	2.514	1.00	46.33	AAAA
ATOM 1569 CA SER A 203 11.189 56.209 0.448 1.00 48.12 AAAA													<b>A</b> AAA
MINI 10/0 OD DEK W 200 12:047 20:212 0:042 1:00 4:													
	111011	13,0	J.	2017	41			044	20.713	5.543	1.00		

MOTA	1571	OG	SER 2	A 203	13.489	56.010	-0.285	1.00 45.70	AAAA
ATOM	1572	C		A 203					
						57.664	-0.010	1.00 49.45	AAAA
ATOM	1573	0	SER I	A 203	11.959	58.454	0.033	1.00 48.09	AAAA
ATOM	1574	N	PRO 2	A 204	9.797	58.028	-0.478	1.00 51.09	AAAA
ATOM	1575	CD		A 204		57.094			
							-1.051	1.00 51.73	
ATOM	1576	CA		A 204		59.392	-0.935	1.00 51.61	AAAA
ATOM	1577	CB	PRO 2	A 204	8.739	59.153	-2.215	1.00 52.00	AAAA
ATOM	1578	CG		A 204		58.014	-1.821	1.00 51.12	
ATOM	1579	С		A 204		60.158	0.090	1.00 52.49	AAAA
ATOM	1580	0	PRO 2	A 204	9.205	60.966	0.871	1.00 52.29	AAAA
ATOM	1581	N	SER	A 205		59.877	0.065	1.00 53.64	
ATOM	1582								
		CA	SER I			60.489	0.956	1.00 52.92	AAAA
ATOM	1583	CB	SER I	A 205	5.431	61.327	0.140	1.00 49.64	AAAA
ATOM	1584	OG	SER 2	A 205	4.556	62.009	0.996	1.00 48.39	
ATOM	1585	С	SER						
						59.419	1.741	1.00 53.92	
ATOM	1586	0	SER I	A 205	4.394	59.438	1.787	1.00 53.33	AAAA
ATOM	1587	N	ASP 3	A 206	6.369	58.486	2.347	1.00 54.56	AAAA
ATOM	1588	CA	ASP 2			57.399	3.137	1.00 54.85	
MOTA	1589	CB	ASP 2			56.042	2.654	1.00 55.67	AAAA
ATOM	1590	CG	ASP I	A 206	6.499	55.999	1.170	1.00 56.06	AAAA
MOTA	1591	ODI	ASP I	A 206	5.546	56.287	0.421	1.00 57.84	
ATOM	1592		ASP 3			55.672	0.758	1.00 55.94	AAAA
MOTA	1593	С	ASP I	A 206	6.190	57.557	4.592	1.00 53.99	AAAA
ATOM	1594	0	ASP :	A 206	6.541	56.583	5.259	1.00 53.26	
ATOM									
	1595	N		A 207		58.792	5.071	1.00 53.24	AAAA
MOTA	1596	CA	CYS Z	A 207	6.517	59.109	6.433	1.00 52.25	AAAA
ATOM	1597	С	CYS	A 207	5.475	58.777	7.470	1.00 51.34	
ATOM	1598	0							
			CYS			59.331	7.473	1.00 53.10	AAAA
ATOM	1599	CB	CYS :	A 207	6.891	60.566	6.498	1.00 52.31	AAAA
ATOM	1600	SG	CYS I	A 207	8.265	60.786	5.355	1.00 54.09	
ATOM	1601	N		A 208					
						57.864	8.357	1.00 49.04	
MOTA	1602	CA	CYS 2	A 208	4.999	57.381	9.425	1.00 45.35	AAAA
MOTA	1603	С	CYS 2	A 208	4.513	58.457	10.354	1.00 44.62	AAAA
MOTA	1604	0		A 208		59.501	10.514	1.00 43.65	
ATOM	1605	CB	CYS			56.358	10.239	1.00 44.09	AAAA
ATOM	1606	SG	CYS 2	A 208	6.447	55.048	9.206	1.00 40.58	AAAA
ATOM	1607	N	HIS 2	A 209	3.372	58.185	10.975	1.00 43.55	
ATOM	1608	CA	HIS						
					_	59.104	11.935	1.00 42.68	
ATOM	1609	CB	HIS ?	A 209	1.548	58.493	12.555	1.00 40.84	AAAA
ATOM	1610	CG	HIS I	A 209	0.892	59.379	13.555	1.00 40.84	AAAA
MOTA	1611	CD2	HIS I			59.477	13.951		
								1.00 41.61	
ATOM	1612		HIS .			60.323	14.277	1.00 41.59	AAAA
ATOM	1613	CE1	HIS .	A 209	0.757	60.968	15.073	1.00 41.82	AAAA
MOTA	1614	NE2	HIS	A 209	-0.455	60.474	14.895	1.00 42.44	
ATOM		C							
	1615			A 209		59.256	13.002	1.00 43.80	AAAA
ATOM	1616	0	HIS :	A 209	4.512	58.268	13.355	1.00 45.43	AAAA
ATOM	1617	N	ASN .	A 210	4.053	60.469	13.520	1.00 43.51	AAAA
ATOM	1618	CA	ASN .			60.709			
							14.547	1.00 42.51	
ATOM	1619	CB	ASN				15.084	1.00 41.45	AAAA
ATOM	1620	CG	ASN 2	A 210	5.103	63.183	13.995	0.01 41.20	AAAA
ATOM	1621	ODI	ASN I	A 210		63.259	13.329	0.01 40.82	
ATOM	1622		ASN						
						63.995	13.808	0.01 40.82	
MOTA	1623	С	ASN .			59.706	15.724	1.00 41.52	AAAA
MOTA	1624	0	ASN :	A 210	6.136	59.410	16.289	1.00 40.33	AAAA
ATOM	1625	N	GLN :			59.175	16.070	1.00 40.50	
ATOM									
	1626	CA	GLN .			58.237	17.179	1.00 40.01	
MOTA	1627	CB	GLN .			58.277	17.730	1.00 38.65	AAAA
ATOM	1628	CG	GLN .			59.498	18.569	1.00 36.98	
ATOM	1629	CD	GLN .			59.654	19.737	1.00 37.20	
ATOM	1630		GLN .			58.829	20.653	1.00 38.02	AAAA
ATOM	1631	NE2	GLN :	A 211	3.782	60.713	19.710	1.00 34.81	AAAA
ATOM	1632	С	GLN :			56.795			
							16.874	1.00 40.74	
ATOM	1633	0		A 211		55.893	17.657	1.00 40.19	
ATOM	1634	N	CYS :	A 212	4.778	56.565	15.738	1.00 42.02	AAAA
ATOM	1635	CA	CYS :	A 21.2		55.209	15.382	1.00 42.80	
ATOM	1636	C		A 212					
						54.974	15.745	1.00 41.52	
MOTA	1637	0		A 212		55.904	15.959	1.00 38.70	AAAA
ATOM	1638	CB	CYS	A 212	4.999	54.962	13.885	1.00 45.00	
ATOM	1639	SG		A 212					
						54.985	13.193	1.00 51.05	
MOTA	1640	N		A 213		53.710	15.814	1.00 42.31	AAAA
ATOM	1641	CA	ALA	A 213	8.362	53.352	16.125	1.00 42.69	AAAA
MOTA	1642	CB	ALA			53.019	17.601	1.00 43.86	
ATOM	1643	С	ALA			52.140	15.278	1.00 42.32	AAAA
ATOM	1644	0	ALA .	A 213	7.766	51.351	14.981	1.00 41.20	AAAA
ATOM	1645	N		A 21		52.006	14.895	1.00 42.78	
					2.323	52.000	14.099	1.00 42.70	מתחת

MOTA	1646	CA	ALA A	214	10.393	50.900	14.056	1.00 43.37	AAAA
ATOM	1647	CB	ALA A		9.797	49.561	14.531	1.00 43.18	AAAA
ATOM	1648	C	ALA A		10.018	51.166	12.602	1.00 42.48	AAAA
ATOM	1649	0	ALA A		10.872	51.166	11.719	1.00 42.66	AAAA
ATOM	1650	И	GLY A		8.737	51.407	12.361	1.00 40.93	AAAA
ATOM	1651	CA	GLY F		8.292	51.679	11.013	1.00 40.42	AAAA
		C	GLY F		6.793	51.613	10.973	1.00 39.70	AAAA
ATOM	1652		GLY A		6.176	51.354	11.995	1.00 38.99	AAAA
ATOM	1653	0			6.205	51.836	9.804	1.00 40.57	AAAA
ATOM	1654	N	CYS A		4.756	51.804	9.678	1.00 42.39	AAAA
ATOM	1655	CA	CYS A				8.396	1.00 44.07	AAAA
MOTA	1656	C	CYS A		4.303	51.190	7.508	1.00 45.43	AAAA
ATOM	1657	0		216	5.095	50.921		1.00 43.45	AAAA
MOTA	1658	CB		A 216	4.180	53.198	9.720		AAAA
MOTA	1659	SG		A 216	4.769	54.274	8.384	1.00 41.15	AAAA
MOTA	1660	N		A 217	2.996	51.019	8.292	1.00 45.80	
ATOM	1661	CA		A 217	2.396	50.425	7.121	1.00 47.24	AAAA
MOTA	1662	CB		A 217	1.627	49.173	7.526	1.00 46.37	AAAA
MOTA	1663		THR A		1.118	48.536	6.358	1.00 48.86	AAAA
ATOM	1664	CG2	THR A	A 217	0.470	49.530	8.443	1.00 46.90	AAAA
MOTA	1665	C	THR A	A 217	1.453	51.402	6.422	1.00 49.16	AAAA
ATOM	1666	0	THR A	A 217	0.364	51.024	6.001	1.00 49.53	AAAA
ATOM	1667	N	GLY A	A 218	1.876	52.656	6.287	1.00 51.38	AAAA
ATOM	1668	CA	GLY A	A 218	1.027	53.650	5.648	1.00 54.01	AAAA
MOTA	1669	С	GLY A	A 218	0.419	54.572	6.693	1.00 56.18	AAAA
ATOM	1670	0	GLY A	A 218	-0.801	54.661	6.826	1.00 55.77	AAAA
MOTA	1671	N	PRO Z	A 219	1.263	55.312	7.425	1.00 58.08	AAAA
ATOM	1672	CD	PRO 2	A 219	2.571	55.685	6.867	1.00 59.41	AAAA
ATOM	1673	CA	PRO 2	A 219	0.892	56.254	8.488	1.00 59.02	AAAA
ATOM	1674	CB		A 219	2.032	57.271	8.470	1.00 59.48	AAAA
ATOM	1675	CG		A 219	2.572	57.167	7.077	1.00 60.15	AAAA
ATOM	1676	С	PRO 2	A 219	-0.466	56.916	8.381	1.00 58.73	<b>AAAA</b>
ATOM	1677	0		A 219	-0.856	57.414	7.327	1.00 58.44	AAAA
ATOM	1678	N	ARG	A 220	-1.167	56.908	9.508	1.00 58.69	AAAA
ATOM	1679	CA		A 220	-2.494	57.491	9.649	1.00 59.89	AAAA
ATOM	1680	CB	ARG .	A 220	-3.474	56.880	8.639	1.00 60.19	AAAA
ATOM	1681	CG		A 220	-4.851	57. <b>537</b>	8.608	1.00 61.45	AAAA
ATOM	1682	CD	ARG .	A 220	-5.848	56.671	7.840	1.00 63.74	AAAA
ATOM	1683	NE	ARG .	A 220	-7.194	57.247	7.805	1.00 65.84	AAAA
MOTA	1684	CZ	ARG .	A 220	-8.274	56.613	7.350	1.00 66.41	AAAA
ATOM	1685	NH1	ARG .	A 220	-8.175	55.374	6.890	1.00 66.13	AAAA
ATOM	1686	NH2	ARG .	A 220	-9.456	57.219	7.351	1.00 66.68	AAAA
ATOM	1687	С	ARG .	A 220	-2.946	57.175	11.079	1.00 60.05	AAAA
ATOM	1688	0	ARG .	A 220	-4.117	56.854	11.319	1.00 60.28	AAAA
AT'OM	1689	N	GLU .	A 221	-1.996	57.259	12.015	1.00 58.92	AAAA
MOTA	1690	CA	GLU .	A 221	-2.240	56.994	13.434	1.00 57.19	AAAA
ATOM	1691	CB	GLU .	A 221	-3.448	57.799	13.928	1.00 57.05	AAAA
MOTA	1692	CG	GLU .	A 221	-3.453	59.258	13.512	1.00 56.62	AAAA
ATOM	1693	CD	GLU .	A 221	-4.656	60.012	14.044	0.01 56.65	AAAA
ATOM	1694	OE1	GLU .	A 221	-4.811	60.092	15.281		AAAA
ATOM	1695	OE 2	GLU .	A 221	-5.446	60.525	13.224	0.01 56.65	AAAA
ATOM	1696	С	GLU	A 221	-2.485	55.511	13.698		AAAA
ATOM	1697	0	GLU	A 221	-2.174	54.994	14.769	1.00 55.31	AAAA
ATOM	1698	N	SER	A 222	-3.041	54.830	12.706	1.00 56.18	AAAA
MOTA	1699	CA	SER	A 222	-3.355	53.419	12.832	1.00 56.43	AAAA
ATOM	1700	CB	SER	A 222	-4.870	53.221	12.759	1.00 57.00	AAAA
ATOM	1701	OG	SER	A 222	-5.199	51.846	12.645	1.00 58.42	AAAA
MOTA	1702	C	SER	A 222	-2.686	52.582	11.757	1.00 55.83	AAAA
ATOM	1703	0	SER	A 222	-3.353	51.862	11.014	1.00 57.02	AAAA
ATOM	1704	N		A 223	-1.366	52.663	11.679	1.00 54.27	AAAA
ATOM	1705	CA		A 223		51.904	10.685	1.00 52.73	AAAA
ATOM	1706	СВ		A 223	-0.605	52.676	9.370	1.00 54.05	AAAA
ATOM	1707	CG		A 223		53.057	8.902	1.00 54.95	AAAA
ATOM	1708			A 223		52.148	8.656	1.00 55.77	<b>A</b> AAA
ATOM	1709			A 223		54.266	8.788	1.00 55.74	AAAA
ATOM	1710	C		A 223		51.704	11.212	1.00 51.38	AAAA
ATOM	1711	ō		A 223		51.361	10.475	1.00 50.53	AAAA
ATOM	1712	N		A 224	0.915	51.928	12.511	1.00 50.29	AAAA
ATOM	1713	CA		A 224	2:197	51.791	13.180	1.00 48.36	AAAA
ATOM	1714	C		A 224	2.590	50.328	13.380	1.00 45.79	AAAA
ATOM	1715	ō		A 224		49.445	13.478	1.00 44.36	AAAA
ATOM	1716	CB		A 224		52.470	14.558	1.00 49.31	AAAA
ATOM	1717	SG		A 224		54.298	14.669	1.00 50.71	AAAA
ATOM	1718	N		A 225		50.076	13.423		AAAA
ATOM	1719	CA		A 225		48.734	13.688		AAAA
ATOM	1720			A 225		48.606	13.352		AAAA
				_					

ATOM	1721	CG	LEU	75	225	6.293		48.660	11.888	1.00 38.67	AAAA
MOTA	1722	CD1				7.808	4	48.619	11.837	1.00 38.18	AAAA
ATOM	1723	CD2	LEU	А	225	5.710	١ ،	47.508	11.108	1.00 37.49	AAAA
ATOM	1724	С	LEU	A	225	4.141		48.635	15.200	1.00 41.25	AAAA
											AAAA
ATOM	1725		LEU			3.179		48.018	15.668	1.00 41.17	
ATOM	1726	N	VAL	А	226	5.035	, ,	49.274	15.952	1.00 39.88	AAAA
ATOM	1727	CA	VAL	А	226	4.950	١ ،	49.313	17.408	1.00 38.79	AAAA
ATOM	1728		VAL			6.267		48.829	18.066	1.00 37.00	AAAA
MOTA	1729	CG1	VAL	Α	226	6.128		48.842	19.580	0.01 38.00	AAAA
ATOM	1730	CG2	VAL	Α	226	6.613		47.434	17.572	0.01 38.01	AAAA
ATOM	1731	С	VAL			4.695		50.778	17.799	1.00 39.07	AAAA
ATOM	1732	0	VAL	А	226	5.159	,	51.700	17.095	1.00 39.05	AAAA
ATOM	1733	N	CYS	Α	227	3.954		50.988	18.897	1.00 37.56	AAAA
ATOM	1734	CA	CYS	Δ	227	3.640	ì	52.331	19.386	1.00 35.54	AAAA
ATOM	1735	С	CYS	А	221	4.790		52.879	20.190	1.00 36.25	AAAA
ATOM	1736	0	CYS	Α	227	5.363	3	52.183	21.012	1.00 35.94	AAAA
MOTA	1737	CB	CYS	A	227	2.394	! .	52.336	20.263	1.00 35.71	AAAA
ATOM	1738	SG	CYS			0.817		52.196	19.375	1.00 31.66	AAAA
ATOM	1739	N	ARG	Α	228	5.103	3	54.146	19.939	1.00 37.65	AAAA
ATOM	1740	CA	ARG	A	228	6.195	5	54.887	20.572	1.00 37.09	AAAA
	1741		ARG			6.414		56.197	19.796	1.00 39.17	AAAA
ATOM		CB									
ATOM	1742	CG	ARG	А	228	7.628	3	57.012	20.192	1.00 42.04	AAAA
ATOM	1743	CD	ARG	Α	228	8.871		56.604	19.416	1.00 44.16	AAAA
MOTA	1744	NE	ARG			8.739		56.891	17.990	1.00 46.13	AAAA
MOTA	1745	CZ	ARG			9.717		56.758	17.098	1.00 47.14	AAAA
ATOM	1746	NH1	ARG	Α	228	10.917	7	56.337	17.473	1.00 47.40	AAAA
ATOM	1747	NH2	ARG	A	228	9.495	5	57.065	15.828	1.00 48.01	AAAA
MOTA	1748	С	ARG			5.914		55.202	22.039	1.00 36.43	AAAA
ATOM	1749	0	ARG	Α	228	6.841	Ĺ	55.377	22.826	1.00 35.10	AAAA
ATOM	1750	N	LYS	А	229	4.635	5	55.286	22.401	1.00 35.70	AAAA
			LYS			4.271		55.593	23.776	1.00 35.59	AAAA
MOTA	1751	CA									
ATOM	1752	CB	LYS	A	229	4.078	3	57.103	23.952	1.00 35.75	AAAA
ATOM	1753	CG	LYS	Α	229	5.366	5	57.908	23.920	1.00 35.21	AAAA
ATOM	1754	CD			229	5.139		59.344	24.354	0.01 34.93	AAAA
ATOM	1755	CE	LYS	А	229	6.440	J	60.131	24.354	0.01 34.60	AAAA
MOTA	1756	NZ	LYS	Α	229	6.250	)	61.535	24.812	0.01 34.66	AAAA
ATOM	1757	C	LYS	Ά	229	3.037	7	54.865	24.290	1.00 36.26	AAAA
ATOM	1758	0			229	3.136		54.025	25.177	1.00 37.90	AAAA
ATOM	1759	N	PHE	Α	230	1.871	L	55.196	23.750	1.00 36.73	AAAA
MOTA	1760	CA	PHE	Α	230	0.632	2	54.568	24.193	1.00 36.75	AAAA
ATOM	1761	CB	DHE	Δ	230	-0.294	4	55.606	24.838	1.00 35.92	AAAA
MOTA	1762	CG			230	0.004		55.875	26.288	1.00 35.73	AAAA
MOTA	1763	CD1	PHE	Α	230	1.218	3	56.425	26.680	1.00 35.26	AAAA
A'TOM	1764	CD2	PHE	Α	230	-0.926	5	55.561	27.266	1.00 35.45	AAAA
ATOM	1765		PHE			1.503		56.654	28.021	1.00 35.54	AAAA
MOTA	1766	CEZ	PHE			-0.650	J	55.786	28.605	1.00 36.38	AAAA
ATOM	1767	CZ	PHE	Α	230	0.570	0	56.335	28.984	1.00 35.41	AAAA
ATOM	1768	С	PHE	А	230	-0.108	R	53.888	23.059	1.00 38.00	AAAA
						0.028					AAAA
ATOM	1769	0			230		-		21.899	1.00 38.65	
MOTA	1770	И	ARG	Α	231	-0.904	4	52.890	23.409	1.00 39.15	AAAA
ATOM	1771	CA	ARG	Α	231	-1.686	6	52.149	22.433	1.00 40.69	AAAA
ATOM	1772	CB			231	-1.318	8	50.662	22.496	1.00 42.85	AAAA
ATOM	1773	CG			231	-2.06		49.747		1.00 46.15	AAAA
MOTA	1774	CD	ARG	Α	231	-1.68	6	48.276	21.757	1.00 48.43	AAAA
MOTA	1775	NE	ARG	Α	231	-2.47	5	47.645	22.823	1.00 51.09	AAAA
ATOM	1776	CZ			231	-2.04		46.645	23.598	1.00 50.72	AAAA
ATOM	1777	NHI	ARG	A	231	-0.82	6	46.154	23.443	1.00 51.16	AAAA
ATOM	1778	NH2	ARG	A	231	-2.85	0	46.119	24.517	1.00 49.04	AAAA
ATOM	1779	C			231	-3.14		52.330	22.792	1.00 40.51	AAAA
ATOM	1780	0	ARG	A	231	-3.58		51.840	23.828	1.00 41.99	AAAA
ATOM	1781	N	ASP	Α	232	-3.89	8	53.064	21.970	1.00 40.09	AAAA
MOTA	1782	CA			232	-5.32		53.262	22.222	1.00 39.61	AAAA
ATOM	1783	CB			232	-5.78		54.674	21.845		AAAA
ATOM	1784	CG			232	-7.14		55.024	22.426	1.00 38.60	AAAA
ATOM	1785	OD1	ASP	Α	232	-7.71	2	56.064	22.043	1.00 40.26	AAAA
ATOM	1786				232	-7.66		54.271	23.270	1.00 37.24	AAAA
											AAAA
ATOM	1787	С			232	-6.01		52.228	21.345	1.00 39.88	
ATOM	1788	0	ASP	Α	232	-6.38	2	52.480	20.197	1.00 38.47	AAAA
ATOM	1789	N			233	-6.17		51.046	21.920	1.00 41.63	AAAA
										1.00 42.44	AAAA
ATOM	1790	CA			. 233	-6.76		49.915	21.243		
ATOM	1791	CB	GLU	Α	233	-8.25	9	50.128	20.984	1.00 44.32	AAAA
MOTA	1792	CG	GLU	Α	233	-8.99	5	48.813	20.813	1.00 48.29	AAAA
ATOM	1793	CD			233	-8.72		47.835	21.967		AAAA
MOTA	1794				233	-9.29		48.022		1.00 52.51	AAAA
MOTA	1795	OE2	GLU	Α	233	-7.93	9	46.882	21.776	1.00 52.98	AAAA
					-						

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ATOM	1796	С	GLU .	A 23	3 -6.	030	49.694	19.941	1.00 4	11.69	AAAA
ATOM	1797	ō	GLU		_	978	49.063	19.924	1.00	41.89	AAAA
ATOM	1798	N	ALA			544	50.243	18.855	1.00 4	41.27	AAAA
ATOM	1799	CA	ALA			893	50.032	17.575	1.00 4	12.27	. AAAA
ATOM	1800	СВ	ALA			938	49.572	16.553	1.00 4		AAAA
ATOM	1801	C	ALA			107	51.224	17.030	1.00 4		AAAA
ATOM	1802	Õ	ALA			851	51.310	15.830	1.00 4		AAAA
ATOM	1803	N	THR			690	52.128	17.903	1.00 4		AAAA
ATOM	1804	CA	THR			961	53.299	17.439	1.00		AAAA
	1805	CB	THR			929	54.471	17.274	1.00 3		AAAA
ATOM						953	54.107	16.342	1.00 3		AAAA
ATOM	1806		THR					16.784	1.00		AAAA
ATOM	1807		THR			204	55.709		1.00		AAAA
ATOM	1808	C	THR		_	871	53.707	18.410			AAAA
ATOM	1809	0	THR			876	53.273	19.550	1.00		
MOTA	1810	N	CYS			930	54.533	17.966	1.00		AAAA
ATOM	1811	CA	CYS			878	54.997	18.866	1.00		AAAA
ATOM	1812	С	CYS			179	56.415	19.320	1.00		AAAA
MOTA	1813	0	CYS			659	57.240	18.542	1.00		AAAA
ATOM	1814	CB	CYS	A 23		505	54.975	18.197	1.00		AAAA
ATOM	1815	SG	CYS	A 23	36 1.	131	53.327	17.732	1.00		AAAA
ATOM	1816	N	LYS	A 23	37 -0.	898	56.689	20.587	1.00		AAAA
ATOM	1817	ÇA	LYS	A 23	37 -1.	117	58.014	21.151	1.00		AAAA
ATOM	1818	CB	LYS	A 23	37 -2.	. 385	58.018	21.997	1.00	32.65	AAAA
ATOM	1819	CG	LYS	A 23	37 -3.	607	57.482	21.297	1.00	29.86	AAAA
ATOM	1820	CD	LYS	A 23	37 -3.	. 984	58.340	20.127	1.00	27.86	AAAA
ATOM	1821	CE	LYS	A 23	37 -5.	.368	58.006	19.652	1.00	26.79	AAAA
ATOM	1822	NZ	LYS	A 23	37 -6.	.343	58.216	20.736	1.00	26.75	AAAA
ATOM	1823	С	LYS	A 2:	37 0.	.069	58.416	22.025	1.00	35.04	AAAA
ATOM	1824	0	LYS	A 2	37 0.	.884	57.579	22.406	1.00	33.72	AAAA
ATOM	1825	N	ASP			.158	59.704	22.332	1.00	36.22	AAAA
ATOM	1826	CA	ASP			. 223	60.234	23.178	1.00	36.75	AAAA
ATOM	1827	CB	ASP			614	61.628	22.703	1.00	37.69	AAAA
ATOM	1828	CG	ASP			618	62.294	23.618	1.00	40.60	AAAA
ATOM	1829		ASP			.720	61.729	23.805	1.00	41.68	AAAA
ATOM	1830		ASP			. 305	63.387	24.150	1.00	41.14	AAAA
ATOM	1831	С	ASP			. 672	60.319	24.594	1.00	36.57	AAAA
ATOM	1832	Ō	ASP			. 405	60.321	25.585	1.00	36.18	AAAA
ATOM	1833	N	THR			. 646	60.367	24.667	1.00	35.86	AAAA
ATOM	1834	CA	THR			. 337	60.482	25.921	1.00	37.05	AAAA
ATOM	1835	CB	THR			.310	61.954	26.404	1.00	37.76	AAAA
ATOM	1836	OG1	THR	A 2	39 -0.	. 077	62.202	27.094	1.00	38.43	AAAA
ATOM	1837	CG2	THR	A 2	39 -2	. 489	62.263	27.315	1.00	38.92	AAAA
ATOM	1838	С	THR	A 2	39 -2.	.754	60.045	25.648	1.00	36.84	AAAA
ATOM	1839	0	THR	A 2	39 -3.	.394	60.559	24.730	1.00	37.41	AAAA
ATOM	1840	N	CYS	A 2	403.	.248	59.095	26.434	1.00	36.64 <sup>-</sup>	AAAA
ATOM	1841	CA	CYS	A 2	40 -4	. 604	58.622	26.224	1.00	36.25	AAAA
ATOM	1842	С	CYS	A 2	40 -5	. 495	59.827	26.291	1.00	35.05	AAAA
MOTA	1843	0	CYS	A 2	40 -5	.182	60.796	26.969	1.00	34.52	AAAA
ATOM	1844	CB	CYS	A 2	40 -5	.037	57.632	27.307	1.00	37.17	AAAA
ATOM	1845	SG	CYS			.936	56.207	27.526	1.00	37.97	AAAA
ATOM	1846	N	PRO	A 2	41 -6	. 603	59.803	25.555	1.00	35.08	AAAA
ATOM	1847	CD	PRO	A 2	41 -7	.008	58.854	24.505	1.00	35.22	AAAA
ATOM	1848	CA	PRO	A 2	41 -7	.501	60.956	25.606	1.00	35.36	AAAA
MOTA	1849	CB	PRO	A 2	41 -8	.549	60.618	24.540	1.00	34.35	AAAA
ATOM	1850	CG	PRO			.474	59.118	24.413	1.00	34.55	AAAA
ATOM	1851	C	PRO			.066	61.101	27.027	1.00	33.47	AAAA
ATOM	1852	Ō	PRO			.622	60.164	27.581	1.00	32.74	AAAA
ATOM	1853	N	PRO			. 911	62.286	27.631	1.00		AAAA
ATOM	1854	CD	PRO			.326	63.487	27.021	1.00		AAAA
ATOM	1855	CA	PRO			. 377	62.590	28.981	1.00		AAAA
ATOM	1856	CB	PRO			.038	64.064	29.140	1.00		AAAA
ATOM	1857	CG	PRO			.883	64.248	28.228		35.29	AAAA
ATOM	1858	C	PRO			.849	62.343	29.156		35.57	AAAA
ATOM	1859	0	PRO			.629	62.559	28.229		35.45	AAAA
ATOM	1860	N	LEU			.218	61.897	30.354	1.00		AAAA
ATOM	1861	CA	LEU			.609	61.624	30.682		37.91	AAAA
ATOM	1862	CB	LEU			.743	61.163	32.135		37.75	AAAA
ATOM	1863	CG	LEU			.280	59.764	32.555	1.00		AAAA
ATOM	1864		LEU			.605	59.575	34.023	1.00		AAAA
ATOM	1865		LEU			.969	58.689	31.733		36.10	AAAA
ATOM	1866	CD2	LEU			.444	62.880	30.484		38.88	AAAA
ATOM	1867	0	LEU			. 635	62.801	30.186		39.81	AAAA
ATOM	1868	N	MET			.815	64.040	30.657		38.61	AAAA
ATOM	1869	CA				.504	65.315	30.493		37.67	AAAA
ATOM	1870	CB	MET			.828	65.922	31.852		39.24	AAAA
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MOTA	1871	CG	MET	Α	244	-13.735	65.066	32.686	1.00 41.36	
ATOM	1872	SD	MET			-15.168	65.991	33.205	1.00 45.46	
ATOM	1873	CE	MET			-16.462	65.345	32.080	1.00 44.43	
ATOM	1874	C	MET MET			-11.647 -10.461	66.280 66.039	29.697 29.496	1.00 35.85	
ATOM ATOM	1875 1876	O N	LEU			-12.253	67.375	29.496	1.00 33.4	
ATOM	1877	CA	LEU			-11.548	68.367	28.457	1.00 32.6	
ATOM	1878	CB	LEU			-11.767	68.074	26.973	1.00 30.7	
ATOM	1879	CG			245	-10.543	67.835	26.095	1.00 29.40	AAAA C
ATOM	1880	CD1	LEU	A	245	-9.554	66.940	26.798	1.00 29.8	
MOTA	1881		LEU			-10.982	67.200	24.803	1.00 29.4	
ATOM	1882	C			245	-12.036	69.773	28.776	1.00 33.2	
ATOM	1883	0			245	-13.239 -11.092	70.004	28.919 28.875	1.00 32.2	
ATOM ATOM	1884 1885	N CA			246 246	-11.399	70.709 72.108	29.181	1.00 30.9	
ATOM	1886	CB			246	-10.132	72.831	29.586	1.00 29.2	
ATOM	1887	CG			246	-10.344	74.253	30.040	1.00 27.3	
MOTA	1888	CD1	TYR	Α	246	-11.026	74.538	31.231	1.00 25.8	AAAA 8
MOTA	1889	CE1	TYR	Α	246	-11.136	75.856	31.700	1.00 23.6	
ATOM	1890		TYR			-9.791	75.315	29.325	1.00 25.8	
ATOM	1891		TYR			-9.898	76.625	29.785	1.00 24.4	
ATOM	1892	CZ OH			246 246	-10.566 -10.633	76.885 78.170	30.971 31.424	1.00 23.7 1.00 24.8	
ATOM ATOM	1893 1894	C			246	-10.033	72.872	28.025	1.00 24.0	
ATOM	1895	o			246	-11.565	72.793	26.892	1.00 31.5	
ATOM	1896	N			247	-13.069	73.627	28.320	1.00 30.7	
ATOM	1897	CA	ASN	Α	247	-13.731	74.413	27.301	1.00 31.1	4 AAAA
MOTA	1898	CB	ASN	Α	247	-15.238	74.339	27.485	1.00 32.1	
MOTA	1899	CG			247	-15.970	75.131	26.452	1.00 35.3	
ATOM	1900				247	-15.626	76.282	26.181	1.00 36.0	
ATOM	1901				247	-16.990	74.531	25.861	1.00 37.7 1.00 30.5	
ATOM ATOM	1902 1903	C			. 247 . 247	-13.243 -13.475	75.846 76.440	27.488 28.529	1.00 30.3	
ATOM	1903	N			248	-13.473	76.415	26.480	1.00 30.7	
ATOM	1905	CD			248	-12.191	75.736	25.234	1.00 29.1	
ATOM	1906	CA			248	-12.006	77.777	26.487	1.00 31.1	8 AAAA
ATOM	1907	CB	PRC	A	248	-11.124	77.805	25.234	1.00 30.3	
MOTA	1908	CG			248	-10.870	76.374	24.941	1.00 29.8	
ATOM	1909	C			248	-13.017	78.913	26.461	1.00 31.2	
ATOM ATOM	1910 1911	О И			248	-12.714 -14.214	80.034 78.618	26.853 25.981	1.00 31.7	
ATOM	1912	CA			249	-15.248	79.621	25.883	1.00 33.0	
ATOM	1913	CB			249	-16.131	79.381	24.643	1.00 34.2	
MOTA	1914	OG1	THE	P	249	-17.142	78.414	24.951	1.00 35.7	O AAAA
MOTA	1915	CG2			249	-15.295	78.857	23.487	1.00 35.5	
ATOM	1916	С			249	-16.149	79.594	27.102	1.00 33.3	
ATOM	1917	0			249	-16.839 -16.140	80.559 78.482	27.393 27.814	1.00 35.1	
ATOM ATOM	1918 1919	N CA			1 250 1 250	-16.140	78.332	28.967	1.00 31.9	
ATOM	1920	CB			250	-17.789	77.018	28.850	1.00 33.1	
ATOM	1921				250	-18.606	77.083	27.683	1.00 36.0	
ATOM	1922	CG2	THE	R F	250	-18.686	76.801	30.050	1.00 34.5	52 AAAA
MOTA	1923	С			250	-16.257	78.352	30.286	1.00 30.6	
ATOM	1924	0			250	-16.861	78.542	31.332	1.00 30.9	
ATOM	1925 1926	N CA			A 251 A 251	-14.949 -14.166	78.158 78.121	30.239 31.452	1.00 30.0	
ATOM ATOM	1927	CB			A 251	-14.231	79.464	32.161	1.00 28.5	
ATOM	1928	CG			A 251	-13.629	80.592	31.385	1.00 29.4	
ATOM	1929				A 251	-14.351	81.247	30.398	1.00 30.2	28 AAAA
ATOM	1930	CE]	TY	R 1	A 251	-13.765	82.273	29.645	1.00 32.5	
ATOM	1931				A 251	-12.313	80.981	31.612	1.00 30.	
ATOM	1932				A 251	-11.719	81.997	30.873	1.00 31.8	
ATOM	1933	CZ			A 251	-12.444	82.642	29.889	1.00 32.0	
MOTA	1934	OH			A 251	-11.837	83.643	29.151	1.00 33.0	
ATOM ATOM	1935 1936	C O			A 251 A 251	-14.745 -15.039	77.030 77.263	32.354 33.535	1.00 29.0	
ATOM	1937	N			A 252	-14.933	75.846		1.00 28.0	
ATOM	1938	CA			A 252	-15.452	74.687	32.490	1.00 29.	
ATOM	1939	СВ			A 252	-16.946	74.514	32.264	1.00 29.	
ATOM	1940	CG			A 252	-17.832	75.541		1.00 32.	
ATOM	1941	CD			A 252	-17.663	75.580		1.00 33.	
ATOM	1942				A 252	-17.677	74.545		1.00 33.	
ATOM	1943	NE: C			A 252	-17.504 -14.745	76.781			
ATOM ATOM	1944 1945				A 252 A 252	-14.745	73.514 73.693		1.00 31.	
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ATOM	1946	N	MET A	253	-14.997	72.317	32.385	1.00 32.28	AAAA
ATOM	1947	CA	MET A		-14.386	71.114	31.839	1.00 32.69	AAAA
ATOM	1948	CB	MET A		-13.837	70.227	32.943	1.00 31.28	AAAA
ATOM	1949	CG	MET A		-12.778	70.870	33.783	1.00 30.45	AAAA
ATOM	1950	SD	MET A		-11.468	71.379	32.735	1.00 30.45	AAAA
ATOM	1951	CE	MET A		-10.909	69.816	32.150	1.00 30.52	AAAA
ATOM	1952	C	MET A		-15.510	70.387	31.176	1.00 35.61	AAAA
				_					
ATOM	1953	0	MET A		-16.649	70.507	31.619	1.00 37.68	AAAA
ATOM	1954	N	ASP A		-15.203	69.626	30.128	1.00 38.31	AAAA
ATOM	1955	CA	ASP A		-16.218	68.856	29.403	1.00 38.75	AAAA
ATOM	1956	CB	ASP A		-16.350	69.395	27.980	1.00 38.58	· AAAA
ATOM	1957	CG	ASP A		-17.101	70.717	27.930	1.00 38.04	AAAA
ATOM	1958		ASP A		-16.696	71.607	27.148	1.00 37.49	AAAA
ATOM	1959		ASP A		-18.101	70.863	28.673	1.00 37.97	AAAA
ATOM	1960	С	ASP A		-15.946	67.349	29.400	1.00 40.16	AAAA
ATOM	1961	0	ASP A		-15.006	66.880	30.037	1.00 40.02	AAAA
ATOM	1962	N	VAL A		-16.749	66.593	28.661	1.00 42.11	AAAA
ATOM	1963	CA	VAL A	255	-16.619	65.140	28.655	1.00 43.79	AAAA
ATOM	1964	CB	VAL A	255	-18.008	64.496	28.628	1.00 43.56	AAA
ATOM	1965	CG1	VAL A	255	-17.919	63.057	29.135	1.00 44.24	AAAA
ATOM	1966	CG2	VAL A	255	-18.969	65.310	29.482	1.00 44.16	AAAA
ATOM	1967	С	VAL A	255	-15.748	64.383	27.642	1.00 45.22	AAAA
MOTA	1968	0	VAL A	255	-15.302	63.276	27.940	1.00 46.20	AAAA
ATOM	1969	N	ASN A	256	-15.489	64.939	26.466	1.00 46.29	AAAA
ATOM	1970	CA	ASN A	256	-14.679	64.207	25.482	1.00 47.64	AAAA
ATOM	1971	СВ	ASN A		-13.180	64.373	25.767	1.00 46.64	AAAA
ATOM	1972	CG	ASN A		-12.311	63.659	24.751	0.01 46.65	AAAA
ATOM	1973		ASN A		-12.367	63.949	23.557	0.01 46.47	AAAA
ATOM	1974		ASN A		-11.502	62.717	25.222	0.01 46.44	AAAA
ATOM	1975	C	ASN A		-15.026	62.726	25.567	1.00 48.33	AAAA
MOTA	1976	ŏ	ASN A		-14.246	61.943	26.092	1.00 48.82	AAAA
ATOM	1977	N	PRO A		-16.206	62.323	25.062	1.00 49.73	AAAA
ATOM	1978	CD	PRO A		-17.178	63.080	24.252	1.00 50.42	AAAA
ATOM	1979	CA	PRO A		-16.578	60.905	25.131	1.00 49.50	AAAA
ATOM	1980	CB	PRO A		-17.911	60.855	24.379	1.00 49.50	AAAA
			PRO A			61.997	23.407	1.00 50.50	AAAA
MOTA	1981	CG	PRO A		-17.800 -15.518		24.545	1.00 30.52	AAAA
ATOM	1982 1983	C 0	PRO A		-15.456	59.981 58.803	24.889	1.00 47.21	AAAA
ATOM ATOM	1984	N	GLU A		-14.684	60.520	23.663	1.00 47.21	AAAA
ATOM	1985	CA	GLU A		-13.615	59.730	23.003	1.00 49.91	AAAA
ATOM	1986	CB	GLU A		-13.156	60.334	21.743	1.00 51.32	AAAA
ATOM	1987	CG	GLU A		-14.157	60.143	20.621	1.00 55.56	AAAA
ATOM	1988	CD	GLU A		-14.308	58.686	20.021	1.00 58.36	AAAA
ATOM	1989		GLU A		-13.352	58.137	19.626	1.00 59.74	AAAA
ATOM	1990		GLU A		-15.373	58.090	20.508	1.00 59.17	AAAA
ATOM	1991	C	GLU A		-12.446	59.694	24.049	1.00 49.10	AAAA
ATOM	1992	Ö	GLU A		-11.338	60.090	23.695	1.00 50.03	AAAA
ATOM	1993	N	GLY A		-12.705	59.213	25.268	1.00 47.21	AAAA
ATOM	1994	CA			-11.677	59.141	26.296	1.00 44.44	AAAA
ATOM	1995	C	GLY A		-11.509	57.778	26.942	1.00 43.20	AAAA
ATOM	1996	0	GLY A		-12.439	56.977	26.976	1.00 42.66	AAAA
ATOM	1997	N	LYS A		-10.315	57.526	27.471	1.00 42.69	AAAA
	1998	CA	LYS A			56.249	28.106	1.00 41.75	AAAA
ATOM					-9.992			1.00 43.03	AAAA
ATOM	1999 2000	CB	LYS A		-9.098 -9.364	55.423	27.176	1.00 43.03	AAAA
ATOM		CG	LYS A			55.589	25.208	1.00 44.89	AAAA
MOTA	2001	CD	LYS A		-10.562	54.783		1.00 45.48	AAAA
ATOM	2002	CE	LYS A		-10.537	54.674	23.692		AAAA
ATOM	2003	NZ	LYS A		-11.601	53.792	23.160	1.00 45.50	AAAA
ATOM	2004	C	LYS A		-9.249	56.433	29.441	1.00 40.38	
MOTA	2005	0	LYS A		-9.128	57.547	29.956	1.00 40.79	AAAA
ATOM	2006	N	TYR A		-8.749	55.325	29.987	1.00 37.60	AAAA
ATOM	2007	CA	TYR A		-7.985	55.342	31.231	1.00 34.25	AAAA
ATOM	2008	CB	TYR A		-8.601	54.411	32.266	1.00 34.02	AAAA
ATOM	2009	CG	TYR A		-9.894	54.912	32.818	1.00 31.69	AAAA
ATOM	2010		TYR A		-11.093	54.575	32.225	1.00 31.15	AAAA
ATOM	2011		TYR A		-12.274	55.092	32.689	1.00 32.11	AAAA
ATOM	2012		TYR A		-9.912	55.778	33.899	1.00 30.26	AAAA
MOTA	2013		TYR A		-11.082	56.299	34.367	1.00 30.16	AAAA
MOTA	2014	CZ	TYR A		-12.261	55.955	33.757	1.00 31.68	AAAA
ATOM	2015	OH	TYR A	261	-13.442	56.491	34.199	1.00 35.56	AAAA
ATOM	2016	С	TYR A	261	-6.559	54.903	30.971	1.00 32.94	AAAA
ATOM	2017	0	TYR A		-6.321	53.924	30.278	1.00 31.76	AAAA
ATOM	2018	N	SER A	262	-5.619	55.631	31.552	1.00 32.86	AAAA
MOTA	2019	CA	SER A	262	-4.199	55.360	31.398	1.00 33.59	AAAA
ATOM	2020	CB	SER A	262	-3.413	56.561	31.913	1.00 33.75	AAAA

ATOM	2021	OG	SER A 262	-2.169	56.691	31.258	1.00 35.89 1.00 35.40	AAAA AAAA
ATOM ATOM	2022 2023	C O	SER A 262 SER A 262	-3.789 -3.624	54.105 54.140	32.162 33.389	1.00 35.40	AAAA
ATOM ATOM	2023	И	PHE A 263	-3.622	52.997	31.437	1.00 35.97	AAAA
ATOM	2025	CA	PHE A 263	-3.234	51.719	32.044	1.00 34.84	AAAA
ATOM	2026	CB	PHE A 263	-4.341	50.683	31.860	1.00 36.50	AAAA
MOTA	2027	CG	PHE A 263	-3.990	49.316	32.381	1.00 39.61	AAAA
ATOM	2028	CD1	PHE A 263	-4.727	48.201 49.128	31.988 33.230	1.00 41.67	AAAA AAAA
ATOM ATOM	2029 2030	CD2 CE1	PHE A 263 PHE A 263	-2.900 -4.377	46.918	32.426	1.00 40.35	AAAA
ATOM	2031	CE2	PHE A 263	-2.546	47.859	33.671	1.00 40.74	AAAA
ATOM	2032	CZ	PHE A 263	-3.284	46.753	33.266	1.00 42.13	AAAA
ATOM	2033	С	PHE A 263	-1.949	51.188	31.437	1.00 32.99	AAAA AAAA
MOTA	2034 2035	O N	PHE A 263 GLY A 264	-1.972 -0.828	50.487 <b>51.</b> 506	30.433 32.071	1.00 31.04 1.00 32.29	AAAA
ATOM ATOM	2036	CA	GLY A 264	0.451	51.059	31.563	1.00 31.42	AAAA
ATOM	2037	C	GLY A 264	0.788	51.818	30.301	1.00 30.54	AAAA
MOTA	2038	0	GLY A 264	0.727	53.046	30.284	1.00 31.99	AAAA
ATOM	2039	N	ALA A 265	1.150	51.100 51.739	29.244 27.973	1.00 29.64 1.00 29.82	AAAA AAAA
ATOM ATOM	2040 2041	CA CB	ALA A 265 ALA A 265	1.483 2.736	51.117	27.365	1.00 27.80	AAAA
ATOM	2042	C	ALA A 265	0.291	51.522	27.070	1.00 29.67	AAAA
MOTA	2043	0	ALA A 265	0.369	51.672	25.862	1.00 29.33	AAAA
MOTA	2044	N	THR A 266	-0.821	51.192	27.705	1.00 30.73	AAAA
ATOM	2045	CA	THR A 266	-2.070 -2.556	50.904	27.040 27.439	1.00 33.06 1.00 34.05	AAA AAA
ATOM ATOM	2046 2047	CB OG1	THR A 266 THR A 266	-1.733	49.498 48.515	26.812	1.00 37.12	AAAA
ATOM	2048		THR A 266	-4.002	49.281	27.054	1.00 35.94	AAAA
MOTA	2049	С	THR A 266	-3.116	51.880	27.499	1.00 34.62	AAAA
ATOM	2050	0	THR A 266	-3.064	52.355	28.629	1.00 35.05	АААА АААА
MOTA	2051 2052	N CA	CYS A 267 CYS A 267	-4.073 -5.181	52.169 53.050	26.627 26.974	1.00 37.21 1.00 40.21	AAAA
MOTA MOTA	2052	C	CYS A 267	-6.394	52.144	27.108	1.00 42.14	AAAA
ATOM	2054	0	CYS A 267	-6.753	51.419	26.177	1.00 43.36	AAAA
ATOM	2055	CB	CYS A 267	-5.403	54.106	25.894	1.00 39.81	AAAA
ATOM	2056	SG	CYS A 267	-4.001 -7.029	55.258 52.181	25.733 28.269	1.00 42.58 1.00 43.42	AAAA AAAA
MOTA MOTA	2057 2058	N CA	VAL A 268 VAL A 268	-8.158	51.303	28.503	1.00 45.29	AAAA
ATOM	2059	CB	VAL A 268	-7.815	50.313	29.629	1.00 45.57	AAAA
MOTA	2060		VAL A 268	-8.996	49.405	29.909	1.00 47.96	AAAA
MOTA	2061		VAL A 268	-6.599	49.503	29.237 28.818	1.00 45.78 1.00 45.76	AAAA AAAA
ATOM ATOM	2062 2063	C 0	VAL A 268 VAL A 268	-9.500 -9.586	51.950 52.996	29.462	1.00 46.84	AAAA
ATOM	2064	N	LYS A 269	-10.556	51.296	28.363	1.00 45.31	AAAA
ATOM	2065	CA	LYS A 269	-11.893	51.776	28.602	1.00 45.91	AAAA
MOTA	2066	CB	LYS A 269	-12.900	50.830	27.955 28.472	1.00 46.72 1.00 49.25	AAAA AAAA
ATOM ATOM	2067 2068	CG CD	LYS A 269 LYS A 269	-12.804 -14.191	49.407 48.796	28.653	1.00 40.23	AAAA
ATOM	2069	CE	LYS A 269	-14.131	47.549	29.516	1.00 51.49	AAAA
MOTA	2070	NZ	LYS A 269	-13.529	47.829	30.858	1.00 53.11	AAAA
ATOM	2071	C	LYS A 269	-12.127	51.843	30.109 30.603	1.00 46.19 1.00 46.19	AAAA AAAA
MOTA MOTA	2072 2073	0 N	LYS A 269 LYS A 270	-12.789 -11.572	52.750 50.882	30.838	1.00 46.37	AAAA
ATOM	2074	CA	LYS A 270	-11.739		32.283	1.00 46.47	AAAA
MOTA	2075	CB	LYS A 270	-13.061		32.614	1.00 45.40	AAAA
MOTA	2076	CG	LYS A 270	-14.283		32.079 32.827	1.00 44.63 0.01 44.61	AAAA AAAA
ATOM ATOM	2077 2078	CD	LYS A 270 LYS A 270	-14.522 -15.751		32.299	0.01 44.37	AAAA
ATOM	2079		LYS A 270	-16.981			0.01 44.35	AAAA
MOTA	2080		LYS A 270	-10.592	50.080		1.00 47.44	AAAA
MOTA	2081		LYS A 270	-10.249			1.00 47.54	AAAA
MOTA	2082		CYS A 271 CYS A 271	-10.014 -8.893				AAAA AAAA
MOTA MOTA	2083 2084		CYS A 271	-9.162			1.00 50.93	AAAA
ATOM	2085		CYS A 271	-10.313				AAAA
ATOM	2086	CB	CYS A 271	-8.488				AAAA
ATOM	2087			-7.815				АААА АААА
ATOM ATOM	2088 2089		PRO A 272 PRO A 272	-8.083 -6.709				AAAA
ATOM	2089			-8.110				AAAA
ATOM	2091			-6.64		36.014	1.00 53.04	AAAA
ATOM	2092		PRO A 272	-6.098				AAAA
ATOM	2093		PRO A 272	-8.649 -9.061				AAAA AAAA
MOTA MOTA	2094 2095		PRO A 272 ARG A 273	-8.624				AAAA
111 011							_	

MOTA	2096	CA	ARG A	273	-9.093	45.014	39.403	1.00 57.68	AAAA
ATOM	2097	СВ	ARG A		-9.605	43.572	39.541	1.00 60.30	AAAA
ATOM	2098	CG	ARG A	273	-10.535	43.080	38.419	1.00 64.49	AAAA
ATOM	2099	CD	ARG A		-11.869	43.838	38.334	1.00 67.04	AAAA
ATOM	2100	NE	ARG A		-12.581	43.521	37.092	1.00 68.77	AAAA
ATOM	2101	CZ	ARG A		-13.682	44.138	36.667	1.00 69.62	AAAA
ATOM	2102	NH1	ARG A	273	-14.220	45.118	37.385	1.00 70.12	AAAA
ATOM	2103		ARG A		-14.241	43.784	35.515	1.00 69.16	AAAA
ATOM	2104	С	ARG A	273	-7.954	45.251	40.403	1.00 57.21	AAAA
ATOM	2105	0	ARG A	273	-6.774	44.996	40.121	1.00 56.40	AAAA
ATOM	2106	N	ASN A	274	-8.328	45.746	41.574	1.00 56.21	AAAA
ATOM	2107	CA	ASN A		-7.390	46.051	42.642	1.00 55.41	AAAA
ATOM	2108	CB	ASN A	274	-6.556	44.830	43.030	1.00 56.70	AAAA
ATOM	2109	CG	ASN A	274	-5.974	44.953	44.436	1.00 57.44	AAAA
ATOM	2110	OD1	ASN A	274	-5.153	44.135	44.863	1.00 57.04	AAAA
ATOM	2111	ND2	ASN A	274	-6.412	45.980	45.167	1.00 57.81	AAAA
ATOM	2112	С	ASN A	274	-6.461	47.216	42.317	1.00 54.19	AAAA
MOTA	2113	0	ASN A	274	-5.571	47.535	43.109	1.00 54.98	AAAA
ATOM	2114	N	TYR A	4 275	-6.645	47.837	41.152	1.00 51.23	AAAA
ATOM	2115	CA	TYR A	275	-5.855	49.013	40.799	1.00 47.66	AAAA
ATOM	2116	CB	TYR A	275	-5.654	49.142	39.287	1.00 47.44	AAAA
ATOM	2117	CG	TYR A	275	-4.425	48.456	38.758	1.00 46.45	AAAA
MOTA	2118	CD1	TYR A	A 275	-4.499	47.191	38.203	1.00 47.32	AAAA
MOTA	2119	CE1	TYR A	A 275	-3.361	46.540	37.758	1.00 48.90	AAAA
ATOM	2120	CD2	TYR A	A 275	-3.179	49.062	38.853	1.00 46.91	AAAA
ATOM	2121	CE2	TYR A	A 275	-2.036	48.425	38.418	1.00 47.84	AAAA
ATOM	2122	CZ	TYR A	A 275	-2.128	47.159	37.872	1.00 49.00	AAAA
MOTA	2123	OH	TYR A	3 275	-0.986	46.495	37.474	1.00 48.37	AAAA
ATOM	2124	С	TYR A	A 275	-6.714	50.168	41.283	1.00 45.62	AAAA
MOTA	2125	0	TYR A	A 275	-7.922	50.013	41.451	1.00 44.54	AAAA
MOTA	2126	N	VAL A	3 276	-6.111	51.323	41.521	1.00 44.41	AAAA
ATOM	2127	CA	VAL A	A 276	-6.903	52.450	41.978	1.00 43.70	AAAA
ATOM	2128	CB	VAL A	A 276	-6.212	53.218	43.097	1.00 42.36	AAAA
MOTA	2129		VAL A		-7.141	54.296	43.609	1.00 42.26	AAAA
ATOM	2130	CG2	VAL A	A 276	-5.821	52.276	44.214	1.00 41.19	AAAA
ATOM	2131	С	VAL A		-7.160	53.401	40.826	1.00 43.81	AAAA
MOTA	2132	0	VAL A		-6.242	53.742	40.078	1.00 44.14	AAAA
ATOM	2133	N	VAL A		-8.414	53.822	40.691	1.00 43.47	AAAA
ATOM	2134	CA	VAL A		-8.814	54.732	39.622	1.00 43.47	AAAA
ATOM	2135	CB	VAL A		-10.331	54.620	39.347	1.00 43.09	AAAA
MOTA	2136		VAL 2		-10.623	54.973	37.915	1.00 41.26	AAAA
MOTA	2137		VAL A		-10.813	53.211	39.654	1.00 43.35	AAAA
ATOM	2138	С	VAL ?		-8.458	56.172	39.995	1.00 43.37	AAAA
ATOM	2139	0	VAL A		-8.559	56.572	41.153	1.00 43.56	AAAA
ATOM	2140	N		A 278	 -8.057	56.955	39.003	1.00 44.13	AAAA
ATOM	2141	CA		A 278	-7.642	58.337	39.232	1.00 45.21	AAAA
ATOM	2142	CB		4 278	-6.110	58.460	38.963	1.00 44.58	AAAA
MOTA	2143		THR A		-5.391	57.780	39.996	1.00 43.34 1.00 44.87	AAAA
ATOM	2144		THR A		-5.662			1.00 44.87	AAAA AAAA
ATOM	2145	C		A 278	-8.374	59.410	38.409		AAAA
ATOM	2146	0		A 278	-8.515	59.272	37.190	1.00 45.84 1.00 46.74	AAAA
ATOM	2147	И		A 279	-8.830	60.472	39.088 38.434	1.00 46.74	AAAA
ATOM	2148	CA	ASP A		-9.495 -9.496	61.612	39.335	1.00 46.81	AAAA
MOTA	2149	CB CG		A 279 A 279	-10.485	62.852 62.757	40.474	1.00 46.49	AAAA
MOTA	2150 2151		ASP A		-10.465	63.553	41.436	1.00 45.43	AAAA
ATOM ATOM	2151		ASP A		-11.394	61.901	40.400	1.00 46.00	AAAA
	2153	C		a 279	-8.679	61.941	37.196	1.00 46.74	AAAA
MOTA	2154	0		A 279	-7.491	62.237	37.281	1.00 45.31	AAAA
ATOM ATOM	2155	N		A 280	-9.332	61.897		1.00 49.01	AAAA
ATOM	2156	CA		A 280	-8.669	62.149		1.00 50.55	AAAA
					-7.800	63.423	34.700	1.00 53.47	AAAA
ATOM ATOM	2157 2158	CB CG		A 280 A 280	-8.590	64.675	35.140	1.00 54.70	AAAA
ATOM	2159		HIS A		-9.911	64.947		1.00 55.44	AAAA
ATOM	2160		HIS		-8.021	65.820	35.655	1.00 55.04	AAAA
ATOM	2161		HIS A		-8.957	66.740	35.819	1.00 55.62	AAAA
ATOM	2162		HIS		-10.113	66.235	35.425	1.00 55.09	AAAA
ATOM	2163	C		A 280	-7.856	60.885		1.00 49.39	AAAA
ATOM	2164	Ö		A 280	-6.623	60.867		1.00 47.23	AAAA
ATOM	2165	И		A 281	-8.626	59.831	34.167	1.00 49.17	AAAA
ATOM	2166	CA		A 281	-8.158	58.500	33.794	1.00 49.41	AAAA
ATOM	2167	C.		A 281	-6.796	57.916		1.00 48.63	AAAA
ATOM	2168	ō		A 281	-5.896	57.961	33.286	1.00 48.84	AAAA
ATOM	2169	N		A 282	-6.640	57.330		1.00 47.97	AAAA
ATOM	2170	CA		A 282	-5.365	56.722	35.656	1.00 47.51	AAAA

ATOM	2171	СВ	SER A	282	-4.468	57.733	36.361	1.00 46.82	AAAA
ATOM	2172	OG	SER A		-3.681	58.448	35.426	1.00 46.53	AAAA
MOTA	2173	C	SER A		-5.473	55.472	36.510	1.00 47.75	AAAA
ATOM	2174 2175	O N	SER A		-6.166 -4.772	55.447 54.430	37.519 36.089	1.00 47.51 1.00 49.15	AAAA AAAA
ATOM ATOM	2176	N CA	CYS A		-4.754	53.171	36.814	1.00 49.15	AAAA
ATOM	2177	C	CYS A		-3.417	53.123	37.556	1.00 51.60	AAAA
ATOM	2178	0	CYS A	283	-2.359	53.056	36.926	1.00 51.15	AAAA
MOTA	2179	CB	CYS A		-4.852	52.009	35.830	1.00 50.98	AAAA
ATOM	2180	SG	CYS A		-6.095	52.210	34.510	1.00 50.02	AAAA
ATOM ATOM	2181 2182	n ca	VAL A		-3.466 -2.248	53.161 53.164	38.888 39.701	1.00 53.40 1.00 54.56	AAAA AAAA
ATOM	2183	CB	VAL A		-2.111	54.511	40.465	1.00 53.55	AAAA
ATOM	2184		VAL A		-0.786	54.564	41.201	0.01 54.44	AAAA
ATOM	2185	CG2	VAL A		-2.223	55.676	39.492	0.01 54.43	AAAA
ATOM	2186	C	VAL A		-2.168	52.012	40.708	1.00 55.82	AAAA
ATOM ATOM	2187 2188	O N	VAL A		-3.197 -0.934	51.480 51.636	41.129 41.068	1.00 54.87 1.00 56.92	AAAA AAAA
ATOM	2189	CA	ARG A		-0.650	50.567	42.034	1.00 58.28	AAAA
ATOM	2190	СВ	ARG A		0.731	49.955	41.800	1.00 56.00	AAAA
ATOM	2191	CG	ARG A	285	0.892	49.146	40.540	1.00 54.36	AAAA
ATOM	2192	CD	ARG A		2.294	48.552	40.492	1.00 54.19	AAAA
ATOM	2193	NE	ARG A		2.543	47.733	39.308 38.881	1.00 54.24	AAAA AAAA
ATOM ATOM	2194 2195	CZ NH1	ARG A		1.737 0.614	46.763 46.481	39.531	1.00 54.72 1.00 54.28	AAAA
ATOM	2196		ARG A		2.067	46.055	37.813	1.00 54.90	AAAA
MOTA	2197	С	ARG A	285	-0.653	51.167	43.426	1.00 60.13	AAAA
MOTA	2198	0	ARG A		-1.372	50.717	44.316	1.00 60.34	AAAA
ATOM	2199	N	ALA A		0.189 0.290	52.176	43.606 44.880	1.00 63.23 1.00 68.59	AAAA AAAA
ATOM ATOM	2200 2201	CA CB	ALA A		1.720	52.878 52.797	45.419	1.00 68.77	AAAA
MOTA	2202	C	ALA F		-0.113	54.332	44.635	1.00 71.05	AAAA
ATOM	2203	0	ALA A		0.424	54.991	43.743	1.00 72.22	AAAA
ATOM	2204	N	CYS F		-1.055	54.827	45.429	1.00 73.52	AAAA
ATOM ATOM	2205 2206	CA C	CYS F		-1.549 -0.560	56.187 57.310	45.269 45.597	1.00 76.95 1.00 78.25	AAAA AAAA
ATOM	2207	0	CYS A		0.518	57.073	46.141	1.00 78.83	AAAA
ATOM	2208	СВ	CYS A		-2.811	56.365	46.098	1.00 77.88	AAAA
MOTA	2209	SG	CYS A		-3.685	57.910	45.731	1.00 79.03	AAAA
MOTA	2210 2211	N	GLY A		-0.947	58.540	45.262 45.503	1.00 79.82 1.00 82.39	AAAA AAAA
MOTA MOTA	2211	CA C		A 288	-0.097 -0.110	59.694 60.207	46.932	1.00 84.46	AAAA
ATOM	2213	ō		A 288	-1.039	59.924	47.693	1.00 84.48	AAAA
ATOM	2214	N		A 289	0.925	60.968	47.291	1.00 85.18	AAAA
ATOM	2215	CA		A: 289	1.065	61.530	48.633	1.00 86.18	AAAA
ATOM ATOM	2216 2217	CB C		A 289 A 289	2.120 -0.257	62.626 62.079	48.632 49.145	1.00 87.20 1.00 86.14	AAAA AAAA
ATOM	2218	0		A 289	-1.015	61.372	49.803	1.00 86.92	AAAA
ATOM	2219	N		A 290	-0.528	63.344	48.853	1.00 86.09	AAAA
ATOM	2220	CA		A 290	-1.777	63.953	49.280	1.00 86.07	AAAA
ATOM	2221	CB		A 290	-1.847	65.397	48.803	1.00 85.73	AAAA AAAA
ATOM ATOM	2222 2223	0		A 290 A 290	-2.913 -3.455	63.141 63.507	48.672 47.632	1.00 86.13 1.00 86.13	AAAA
ATOM	2224	N		A 291	-3.255	62.032	49.322	1.00 86.73	AAAA
ATOM	2225	CA		A 291	-4.320	61.154	48.855	1.00 87.25	AAAA
MOTA	2226	CB		A 291	-3.998	60.644	47.452	1.00 86.99	AAAA
ATOM	2227	OG		A 291	-4.113	61.681	46.494	1.00 86.76	AAAA AAAA
ATOM ATOM	2228 2229	C O		A 291 A 291	-4.578 -3.688	59.963 59.518	49.779 50.503	1.00 87.61 1.00 87.65	AAAA
ATOM	2230	N		A 292	-5.814	59.466	49.741	1.00 88.23	AAAA
MOTA	2231	CA		A 292	-6.253	58.319	50.537	1.00 88.65	AAAA
ATOM	2232	CB.		A 292	-6.973	58.785	51.795	1.00 88.86	AAAA
ATOM	2233	C		A 292	-7.200	57.493	49.677	1.00 88.78	AAAA AAAA
ATOM ATOM	2234 2235	O N		A 292 A 293	-7.769 -7.385	58.005 56.224	48.718 50.024	1.00 88.88	AAAA
ATOM	2236	CA		A 293	-8.256	55.355	49.242	1.00 90.15	AAAA
ATOM	2237	CB	SER .	A 293	-7.455	54.151	48.740	1.00 90.43	AAAA
ATOM	2238	OG		A 293	-6.789	53.500	49.806		AAAA
ATOM	2239	C		A 293	-9.513	54.874	49.969 51.170		AAAA AAAA
ATOM ATOM	2240 2241	O N		A 293 A 294	-9.489 -10.605	54.616 54.761	49.215		AAAA
ATOM	2242	CA		A 294	-11.896	54.307	49.729		AAAA
MOTA	2243	CB	ALA	A 294	-12.815	55.505			AAAA
MOTA	2244	C		A 294	-12.520	53.332			AAAA
ATOM	2245	0	ALA	A 294	-12.136	53.318	47.551	1.00 91.79	AAAA

ATOM	2246	N	ALA A 295	-13.472	52.514	49.163	1.00 93.22	AAAA
ATOM	2247	CA	ALA A 295		51.546	48.280	1.00 93.92	AAAA
ATOM	2248	CB	ALA A 295		50.215	48.308	1.00 93.68	AAAA
ATOM	2249	C	ALA A 295		51.336	48.694	1.00 94.42	AAAA
						49.398	1.00 94.76	AAAA
ATOM	2250	0	ALA A 295		52.168			AAAA
ATOM	2251	N	ALA A 296		50.229	48.251	1.00 94.58	
ATOM	2252	CA	ALA A 296		49.910	48.588	1.00 94.29	AAAA
ATOM	2253	CB	ALA A 296		50.740	47.739	1.00 94.51	AAAA
MOTA	2254	С	ALA A 290	-17.856	48.427	48.390	1.00 94.06	AAAA
ATOM	2255	0	ALA A 296	-17.526	47.605	49.246	1.00 93.89	AAAA
ATOM	2256	N	GLY A 298	-18.307	50.902	44.075	1.00 92.42	AAAA
ATOM	2257	CA	GLY A 298			43.666	1.00 92.62	AAAA
ATOM	2258	C.	GLY A 298		49.350	43.423	1.00 92.55	AAAA
ATOM	2259	Ö	GLY A 29		48.328	43.801	1.00 92.47	AAAA
						42.784	1.00 92.24	AAAA
ATOM	2260	N	ALA A 29		50.337			
ATOM	2261	CA	ALA A 29		50.285	42.490	1.00 91.80	AAAA
ATOM	2262	CB	ALA A 29:		51.001	41.169		AAAA
MOTA	2263	С	ALA A 29		50.927	43.625	1.00 91.37	AAAA
ATOM	2264	0	ALA A 29	-14.223	51.384	44.621	1.00 91.52	AAAA
ATOM	2265	N .	ALA A 30	-12.342	50.948	43.471	1.00 90.47	AAAA
ATOM	2266	CA	ALA A 30	-11.468	51.540	44.470	1.00 88.67	AAAA
ATOM	2267	СВ	ALA A 30		50.566	44.838	1.00 88.66	AAAA
ATOM	2268	C	ALA A 30		52.825	43.904	1.00 87.65	AAAA
ATOM	2269	0	ALA A 30		52.817	42.870	1.00 87.30	AAAA
					53.931	44.583	1.00 86.76	AAAA
ATOM	2270	N	ALA A 30					AAAA
ATOM	2271	CA	ALA A 30		55.226	44.150	1.00 86.51	
ATOM	2272	CB	ALA A 30		56.151	43.837	1.00 86.86	AAAA
MOTA	2273	С	ALA A 30		55.842	45.229	1.00 86.08	AAAA
MOTA	2274	0	ALA A 30	-9.877	55.498	46.403	1.00 85.53	AAAA
ATOM	2275	N	CYS A 30	-8.892	56.753	44.826	1.00 85.34	AAAA
ATOM	2276	CA	CYS A 30:	-8.011	57.406	45.772	1.00 84.99	AAAA
ATOM	2277	С	CYS A 30	-8.138	58.917	45.650	1.00 85.77	AAAA
ATOM	2278	0	CYS A 30		59.494	44.641	1.00 86.77	AAAA
ATOM	2279	CB	CYS A 30		56.974	45.530	1.00 83.75	AAAA
	2280	SG	CYS A 30		57.705	46.740	1.00 82.11	AAAA
ATOM							1.00 86.13	AAAA
ATOM	2281	N	SER A 30		59.550	46.686		AAAA
ATOM	2282	CA	SER A 30		60.997	46.697	1.00 87.21	
ATOM	2283	CB	SER A 30		61.317	47.351	1.00 87.49	AAAA
ATOM	2284	OG	SER A 30		60.738	46.619	1.00 87.38	AAAA
ATOM	2285	С	SER A 30		61.814	47.366	1.00 87.79	AAAA
ATOM	2286	0	SER A 30	-6.608	61.544	47.159	1.00 87.82	AAAA
ATOM	2287	N	ALA A 30	4 -8.169	62.811	48.168	1.00 88.00	AAAA
ATOM	2288	CA	ALA A 30	4 -7.199	63.687	48.834	1.00 87.92	AAAA
ATOM	2289	CB	ALA A 30	4 -7.571	65.155	48.570	1.00 87.01	AAAA
ATOM	2290	С	ALA A 30	4	63.471	50.342	1.00 88.23	AAAA
ATOM	2291	0	ALA A 30		63.568	51.162	1.00 89.06	AAAA
ATOM	2292	N	CYS A 30		63.195	50.687	1.00 87.62	AAAA
ATOM	2293	CA	CYS A 30		62.973	52.066	1.00 86.43	AAAA
ATOM	2294	C	CYS A 30		63.182	52.108	1.00 85.77	AAAA
			CYS A 30		62.248	51.892	1.00 85.59	AAAA
MOTA	2295	0					1.00 85.38	AAAA
ATOM	2296	CB	CYS A 30		61.547	52.508		AAAA
ATOM	2297	SG	CYS A 30		61.135	54.260	1.00 88.81	
ATOM	2298	И	CYS A 30		61.875	54.993	1.00 82.16	AAAA
ATOM	2299	CA	CYS A 30		62.106	55.563	1.00 80.18	AAAA
ATOM	2300	C	CYS A 30	9 -1.348	61.201	56.777	1.00 79.05	AAAA
MOTA	2301	0	CYS A 30	9 -1.682	61.658	57.873	1.00 79.12	AAAA
ATOM	2302	CB	CYS A 30	9 -2.280	61.795	54.527	1.00 83.74	AAAA
MOTA	2303	SG	CYS A 30	9 -3.925	62.516	54.893	1.00 86.52	AAAA
ATOM	2304	N	ALA A 31		59.911	56.569	1.00 77.19	AAAA
ATOM	2305	CA	ALA A 31		58.927	57.639	1.00 74.81	AAAA
ATOM	2306	CB	ALA A 31		57.786	57.233	1.00 75.18	AAAA
					58.423	57.883	1.00 73.24	AAAA
ATOM	2307	С	ALA A 31			58.998	1.00 74.31	AAAA
MOTA	2308	0	ALA A 31		58.516			AAAA
MOTA	2309	N	ALA A 31		57.904	56.831	1.00 70.33	
MOTA	2310	CA	ALA A 31		57.409	56.904	1.00 67.51	AAAA
ATOM	2311	CB	ALA A 31		56.769	58.263	1.00 67.02	AAAA
MOTA	2312	C	ALA A 31	1 2.530	56.415	55.790	1.00 65.87	AAAA
MOTA	2313	0	ALA A 31		55.213	55.919	1.00 66.24	AAAA
ATOM	2314	N	VAL A 31		56.935	54.693	1.00 63.07	AAAA
ATOM	2315	CA	VAL A 31		56.122	53.547	1.00 60.35	AAAA
ATOM	2316	CB	VAL A 31		56.691	52.248	1.00 59.91	AAAA
ATOM	2317		VAL A 31		56.006	51.041	1.00 59.90	AAAA
					56.501	52.253	1.00 60.52	AAAA
ATOM	2318		VAL A 31					AAAA
MOTA	2319	С	VAL A 31		56.119			AAAA
ATOM	2320	0	VAL A 31	2 5.597	57.166	53.540	1.00 57.85	AAAA

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ATOM	2321	N	CYS	Α	313	5.520	54.929	53.280	1.00	56.	65	AAAA
ATOM	2322	CA	CYS			6.959	54.777	53.173	1.00			AAAA
ATOM ATOM	2323 2324	С 0	CYS CYS			7.274 6.577	53.843 52.859	52.017 51.798	1.00			АААА АААА
ATOM	2324	CB	CYS			7.539	54.194	54.472	1.00			AAAA
ATOM	2326	ŞG	CYS			7.198	55.154	55.984	1.00			AAAA
ATOM	2327	N	ASN	A	314	8.328	54.161	51.277	1.00			AAAA
MOTA	2328	CA	ASN			8.745	53.340	50.153	1.00			AAAA
ATOM	2329	CB	ASN			10.145	53.755	49.676	1.00			AAAA AAAA
ATOM ATOM	2330 2331	CG	ASN ASN			10.145 9.384	55.047 55.189	48.875 47.917	1.00			AAAA
ATOM	2332		ASN			11.016	55.988	49.251	1.00			AAAA
ATOM	2333	C	ASN	Α	314	8.794	51.878	50.574	1.00	51	. 98	AAAA
MOTA	2334	0	ASN			9.110	51.569	51.716	1.00			AAAA
ATOM	2335 2336	N CA	GLY GLY			8.472 8.545	50.982 49.566	49.653 49.953	1.00			AAAA AAAA
ATOM ATOM	2336	C	GLY			9.983	49.170	49.692	1.00			AAAA
MOTA	2338	ō	GLY			10.871	49.992	49.856	1.00			AAAA
ATOM	2339	N	ILE	Α	316	10.231	47.934	49.282	1.00			AAAA
MOTA	2340	CA	ILE			11.602	47.524	49.008	1.00			AAAA
ATOM	2341 2342	CB	ILE			11.996 13.404	46.248 45.794	49.801 49.408	1.00			AAAA AAAA
ATOM ATOM	2342	CG1				11.965	46.542	51.299	1.00			AAAA
ATOM	2344	CD1				12.522	45.430	52.154	1.00			AAAA
MOTA	2345	C	ILE			11.859	47.270	47.527	1.00			AAAA
ATOM	2346	0			316	11.010	46.726	46.817	1.00			AAAA AAAA
ATOM ATOM	2347 2348	N CA	GLY GLY			13.037 13.411	47.677 47.463	47.068 45.681	1.00			AAAA AAAA
ATOM	2349	C			317	12.831	48.433	44.671	1.00			AAAA
MOTA	2350	Ō			317	13.347	48.564	43.559	1.00	49	.11	AAAA
ATOM	2351	N			318	11.761	49.119	45.055	1.00			AAAA
ATOM	2352	CA			318	11.109	50.060	44.159	1.00			AAAA
ATOM ATOM	2353 2354	CB CG2			318 318	9.907 8.955	49.389 48.768	43.428 44.442	1.00			AAAA AAAA
ATOM	2355	CG1				9.190	50.415	42.545	0.01			AAAA
MOTA	2356	CD1	ILE	Α	318	8.030	49.846	41.754	0.01	. 51	.32	AAAA
ATOM	2357	С			318	10.633	51.318	44.875	1.00			AAAA
ATOM	2358 2359	O N			318 319	9.498 11.509	51.390 52.314	45.345 44.951	1.00			AAAA AAAA
ATOM ATOM	2360	CA			319	11.129	53.554	45.595	1.00			AAAA
ATOM	2361	C			319	12.304	54.400	46.032	1.00			AAAA
MOTA	2362	0			319	12.169	55.617	46.170	1.00			AAAA
ATOM	2363 2364	N			320	13.449	53.756 54.437	46.252 46.686	1.00			AAAA AAAA
ATOM ATOM	2364	CA CB			320 320	14.667	55.611	47.610	1.00			AAAA
ATOM	2366	CG			320	15.293	55.934	48.692	1.00			AAAA
MOTA	2367	CD			320	15.041	55.115	49.938	1.00			AAAA
ATOM	2368				320.	13.950	55.283	50.537	1.00			AAAA
ATOM ATOM	2369 2370	C	GLU		320	15.925 15.613	54.308 53.446	50.311 47.369	1.00			AAAA AAAA
ATOM	2371	Ö			320	16.640	53.819	47.938	1.00			AAAA
ATOM	2372	N			321	15.262	52.166	47.297	1.00			AAAA
MOTA	2373	CA			321	16.089	51.123	47.882	1.00			AAAA
ATOM ATOM	2374 2375	CB CG			321 321	15.285 14.766	50.297 51.090	48.875 50.039	1.00		5.73	AAAA AAAA
ATOM	2376		. PHE			13.578	51.804	49.937			1.23	AAAA
ATOM	2377		PHE			15.454	51.104	51.247	1.0	0 44	1.17	AAAA
MOTA	2378		PHE			13.085	52.509	51.018			1.34	AAAA
ATOM	2379	CE 2 CZ	PHE		A 321 A 321	14.967 13.782	51.808 52.510	52.332 52.220			3.49 1.28	AAAA AAAA
ATOM ATOM	2380 2381	C			A 321	16.580	50.245	46.749			7.46	AAAA
ATOM	2382	ō			321	17.695	49.707	46.782			7.78	AAAA
ATOM	2383	N			322	15.735	50.130	45.732			5.08	AAAA
MOTA	2384	CA			322	16.051	49.339	44.556			5.59	AAAA
ATOM ATOM	2385 2386	CB CG			A 322 A 322	16.611 16.954	50.246 49.525	43.455 42.162			5.82 5.39	AAAA AAAA
ATOM	2387	CD			A 322	17.503		41.124			5.46	AAAA
ATOM	2388	CE			A 322	17.847	49.774	39.829			6.34	AAAA
ATOM	2389	NZ	LYS	5 7	A 322	18.883		40.037			5.38	AAAA
ATOM	2390	C			A 322	17.035		44.849			3.91 4.41	AAAA AAAA
ATOM ATOM	2391 2392	O N			A 322 A 323	16.637 18.322		45.167 44.751			2.18	AAAA AAAA
ATOM	2393	CA			A 323	19.325					1.93	AAAA
ATOM	2394	CB	ASI	? ?	A 323	20.685	47.977	44.493			2.94	AAAA
ATOM	2395	CG	ASI	? ?	A 323	20.720	48.147	42.988	0.0	⊥ 4:	2.36	AAAA

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ATOM	2396	OD1	ASP	Α	323	20.640	47.128	42.271	0.01 42	.40	AAAA
ATOM	2397		ASP			20.818	49.300	42.521	0.01 42		AAAA
											AAAA
MOTA	2398	С	ASP			19.389	47.117	46.463	1.00 41		
ATOM	2399	0	ASP	Α	323	20.463	46.869	47.009	1.00 42	2.19	AAAA
MOTA	2400	N	SER	А	324	18.220	47.072	47.094	1.00 39	.41	AAAA
ATOM	2401	CA	SER			18.095	46.711	48.504	1.00 37	10	AAAA
											AAAA
MOTA	2402	CB	SER			17.260	47.756	49.248	1.00 37		
ATOM	2403	OG	SER	Α	324	17.870	49.030	49.213	1.00 38	1.03	AAAA
ATOM	2404	С	SER	A	324	17.418	45.348	48.636	1.00 35	.39	AAAA
ATOM	2405	ō	SER			16.188	45.242	48.537	1.00 34		AAAA
ATOM	2406	N	LEU	A	325	18.220	44.315	48.886	1.00 33		AAAA
ATOM	2407	CA	LEU	Α	325	17.697	42.962	49.009	1.00 31	03	AAAA
ATOM	2408	CB	LEU	Α	325	18.835	41.935	48.969	1.00 29	.74	AAAA
ATOM	2409	CG	LEU			19.256	41.553	47.546	1.00 30		AAAA
MOTA	2410		LEU			20.174	42.617	46.971	1.00 32		AAAA
ATOM	2411	CD2	LEU	Α	325	19.957	40.231	47.557	1.00 30	).55	AAAA
ATOM	2412	С	LEU	Α	325	16.811	42.663	50.202	1.00 29	9.18	AAAA
ATOM	2413	0	LEU			16.126	41.646	50.206	1.00 30	. 85	AAAA
											AAAA
ATOM	2414	N	SER			16.781	43.534	51.201	1.00 26		
ATOM	2415	CA	SER	Α	326	15.964	43.230	52.368	1.00 26	5.21	AAAA
ATOM	2416	CB	SER	Α	326	16.536	41.976	53.047	1.00 22	2.34	AAAA
ATOM	2417	OG	SER	Ά	326	15.992	41.768	54.326	1.00 15	5.09	AAAA
			SER				44.353		1.00 27		AAAA
ATOM	2418	C				15.848		53.387			
ATOM	2419	0	SER	Α	326	16.495	45.391	53.251	1.00 28	3.20	AAAA
ATOM	2420	N	ILE	Α	327	14.993	44.148	54.391	1.00 29	3.40	AAAA
ATOM	2421	CA	ILE	А	327	14.830	45.116	55.461	1.00 31	.14	AAAA
			ILE					56.545	1.00 31		AAAA
ATOM	2422	CB				13.837	44.626				
ATOM	2423	CG2	ILE	A	327	14.041	45.391	57.838	1.00 34		AAAA
ATOM	2424	CG1	ILE	Α	327	12.397	44.847	56.075	1.00 31	46	AAAA
ATOM	2425	CD1	ILE	А	327	12.059	46.289	55.718	1.00 29	.11	AAAA
	2426		ILE			16.245	45.171	55.998	1.00 32		AAAA
MOTA		С									
ATOM	2427	0	ILE	Α	327	16.862	44.132	56.258	1.00 30		AAAA
ATOM	2428	N	ASN	Α	328	16.759	46.388	56.148	1.00 36	5.73	AAAA
ATOM	2429	CA	ASN	Α	328	18.142	46.572	56.562	1.00 39	78	AAAA
ATOM	2430	CB	ASN			18.887	47.328	55.472	1.00 41		AAAA
ATOM	2431	CG			328	20.178	46.670	55.123	1.00 41		AAAA
MOTA	2432	OD1	ASN	Α	328	20.988	46.404	55.998	1.00 43	3.06	AAAA
ATOM	2433	ND2	ASN	Α	328	20.367	46.389	53.842	1.00 41	32	AAAA
ATOM	2434	С	ASN	Α	328	18.492	47.209	57.888	1.00 40	.89	AAAA
ATOM	2435	ō	ASN			17.839	48.145	58.350	1.00 40		AAAA
ATOM	2436	И			329	19.581	46.692	58.453	1.00 42		AAAA
MOTA	2437	CA	ALA	Α	329	20.127	47.130	59.730	1.00 44	1.69	AAAA
MOTA	2438	CB	ALA	Α	329	21.269	46.221	60.133	1.00 45	5.55	AAAA
ATOM	2439	C			329	20.625	48.557	59.674	1.00 45		AAAA
									1.00 44		AAAA
ATOM	2440	0			329	21.672	48.825	59.097			
ATOM	2441	И	THR	Α	330	19.881	49.462	60.298	1.00 46	5.67	AAAA
ATOM	2442	CA	THR	A	330	20.262	50.860	60.312	1.00 48	3.07	AAAA
ATOM	2443	CB	THR	Α	330	21.509	51.086	61.203	1.00 48	3.18 .	AAAA
ATOM	2444	OG1			330	21.249	50.595	62.524	0.01 48		AAAA
MOTA	2445		THR			21.849		61.281	0.01 48		AAAA
MOTA	2446	C	THR	Α	330	20.573	51.248	58.868	1.00 49	9.13	AAAA
ATOM	2447	0	THR	Α	330	21.690	51.654	58.529	1.00 49	9.74	AAAA
ATOM	2448	N	ASN	А	331	19.566	51.094	58.019	1.00 49	0.19	AAAA
			ASN					56.610	1.00 49		AAAA
ATOM	2449	CA				19.676	51.417				
ATOM	2450	CB	ASN			20.489	50.352	55.903	1.00 48		AAAA
ATOM	2451	CG	ASN	Α	331	21.958	50.488	56.175	1.00 49		AAAA
ATOM	2452	OD1	ASN	Α	331	22.610	51.377	55.641	1.00 49	3.32	AAAA
ATOM	2453	ND2	ASN	А	331	22.490	49.619	57.023	1.00 50	0.02	AAAA
ATOM	2454	C			331	18.275	51.471	56.043	1.00 50		AAAA
ATOM	2455	0			331	17.777	52.530	55.667	1.00 50		AAAA
ATOM	2456	N	ALA	A	332	17.624	50.324	55.981	1.00 49	9.98	AAAA
ATOM	2457	CA	ALA	Α	332	16.274	50.323	55.477	1.00 49	9.02	AAAA
ATOM	2458	СВ			332	15.816	48.902	55.179	1.00 48		AAAA
								56.573	1.00 48		AAAA
ATOM	2459	C			332	15.425	50.951				
ATOM	2460	0			332	14.406	51.561	56.283	1.00 49		AAAA
ATOM	2461	N	LYS	Α	333	15.868	50.828	57.825	1.00 47	.00	AAAA
MOTA	2462	CA	LYS	Α	333	15.134	51.372	58.973	1.00 46	5.67	AAAA
ATOM	2463	CB			333	15.898	51.092	60.265	1.00 45		AAAA
MOTA	2464	CĢ			333	16.500	49.711	60.342	1.00 46		AAAA
MOTA	2465	CD	LYS	Α	333	15.528	48.609	59.961	1.00 45		AAAA
MOTA	2466	CE	LYS	Α	333	14.313	48.571	60.860	1.00 45	5.53	AAAA
ATOM	2467	NZ			333	13.437	49.741	60.609	1.00 46		AAAA
									1.00 47		AAAA
MOTA	2468	C			333	14.786	52.871	58.894			
MOTA	2469	0			333	14.929	53.631	59.862	1.00 45		AAAA
MOTA	2470	N	HIS	А	334	14.331	53.283	57.721	1.00 47	1.34	AAAA

ATOM	2471	CA	HIS F	334	13.909	54.647	57.477	1.00 47.23	AAAA
ATOM	2472	CB	HIS A	334	13.988	54.943	55.967	1.00 48.34	AAAA
ATOM	2473		HIS F		13.991	56.403	55.612	1.00 50.17	AAAA
MOTA	2474	CD2	HIS A	334	12.975	57.264	55.355	1.00 50.74	AAAA
ATOM	2475	ND1	HIS A	334	15.153	57.117	55.406	1.00 50.99	AAAA
MOTA	2476	CE1	HIS A	334	14.854	58.349	55.031	1.00 50.42	AAAA
							54.991	1.00 51.06	AAAA
ATOM	2477		HIS A		13.539	58.464			
ATOM	2478	Ç	HIS A	A 334	12.449	54.591	57.956	1.00 46.12	AAAA
MOTA	2479	0	HIS A	334	11.937	55.539	58.536	1.00 46.22	AAAA
ATOM	2480		PHE A		11.807	53.445	57.733	1.00 44.86	AAAA
MOTA	2481		PHE A		10.414	53.230	58.113	1.00 44.82	AAAA
ATOM	2482	CB	PHE A	A 335	10.046	51.738	58.082	1.00 41.96	AAAA
ATOM	2483	CG	PHE A	A 335	10.470	51.009	56.834	1.00 38.99	AAAA
ATOM	2484			A 335	11.773	50.555	56.683	1.00 37.04	AAAA
ATOM	2485			A 335	9.560	50.741	55.824	1.00 38.75	AAAA
ATOM	2486	CE1	PHE A	A 335	12.160	49.840	55.544	1.00 35.29	AAAA
ATOM	2487	CE2	PHE A	A 335	9.947	50.024	54.679	1.00 38.62	AAAA
ATOM	2488	CZ		A 335	11.247	49.575	54.545	1.00 35.29	AAAA
									AAAA
MOTA	2489	С		A 335	10.128	53.749	59.516	1.00 47.07	
ATOM	2490	0	PHE A	A 335	10.105	52.977	60.472	1.00 48.59	AAAA
ATOM	2491	N	LYS Z	A 336	9.899	55.050	59.641	1.00 48.94	AAAA
ATOM	2492	CA		A 336	9.619	55.659	60.937	1.00 49.82	AAAA
ATOM	2493	CB	TAS '	A 336	9.403	57.168	60.778	1.00 51.03	AAAA
MOTA	2494	CG	LYS :	A 336	10.603	57.915	60.220	0.01 50.18	AAAA
ATOM	2495	CD	LYS	A 336	10.319	59.406	60.116	0.01 49.94	AAAA
ATOM	2496	CE	-	A 336	11.518	60.162	59.566	0.01 49.59	AAAA
MOTA	2497	. NZ		A 336	11.255	61.624	59.467	0.01 49.48	AAAA
MOTA	2498	C	LYS .	A 336	8.391	55.034	61.567	1.00 50.01	AAAA
ATOM	2499	0	LYS	A 336	8.436	53.915	62.039	1.00 50.30	AAAA
					7.292	55.766	61.582	1.00 51.95	AAAA
ATOM	2500	N		A 337					
ATOM	2501	CA	ASN .	A 337	6.065	55.251	62.165	1.00 54.58	AAAA
ATOM	2502	CB	ASN .	A 337	5.367	56.338	63.002	1.00 60.00	AAAA
ATOM	2503	CG	ASN	A 337	6.267	56.930	64.085	1.00 65.33	AAAA
	2504			A 337	7.354	57.423	63.789	1.00 65.46	AAAA
ATOM									
ATOM	2505			A 337	5.815	56.906	65.336	1.00 70.95	AAAA
ATOM	2506	С	ASN	A 337	5.149	54.822	6 <b>1</b> .024	1.00 53.14	AAAA
ATOM	2507	0	ASN	A 337	3.925	54.903	61.130	1.00 53.44	AAAA
MOTA	2508	N		A 338	5.744	54.366	59.929	1.00 50.64	AAAA
								1.00 48.22	AAAA
MOTA	2509	CA		A 338	4.964	53.948	58.775		
ATOM	2510	С	CYS	A 338	3.748	53.141	59.190	1.00 46.34	AAAA
ATOM	2511	0	CYS	A 338	3.841	52.236	60.010	1.00 44.39	AAAA
MOTA	2512	CB	CYS	A 338	5.827	53.123	57.825	1.00 49.28	AAAA
				A 338		53.851	57.524	1.00 51.94	AAAA
MOTA	2513	SG			7.465				
ATOM	2514	N		A 339	2.598	53.488	58.630	1.00 45.15	AAAA
ATOM	2515	CA	THR	A 339	1.369	52.774	58.933	1.00 44.67	AAAA
ATOM	2516	CB	THR	A 339	0.234	53.741	59.299	1.00 45.64	AAAA
ATOM	2517			A 339	0.167	54.783	58.319	1.00 46.78	AAAA
									AAAA
ATOM	2518	CG2	THR	A 339	0.466		60.685	1.00 45.17	
MOTA	2519	С	THR	A 339	0.959	51.932	57.725	1.00 43.18	AAAA
MOTA	2520	0	THR	A 339	0.096	51.050	57.814	1.00 43.48	AAAA
ATOM	2521	N		A 340	1.581		56.590	1.00 40.04	AAAA
								1.00 38.11	AAAA
ATOM	2522	CA		A 340	1.310		55.392		
MOTA	2523	CB		A 340	0.076		54.668	1.00 39.38	AAAA
MOTA	2524	OG	SER	A 340	0.411	53.050	53.817	1.00 40.07	AAAA
MOTA	2525	С		A 340	2.523	51.566	54.499	1.00 36.63	AAAA
MOTA	2526	ō		A 340	3.199			1.00 36.03	AAAA
									AAAA
MOTA	2527	N		A 341	2.807			1.00 35.59	
MOTA	2528	CA	ILE	A 341	3.954	50.529	52.888	1.00 34.72	AAAA
ATOM	2529	CB	ILE	A 341	4.945	49.442	53.272	1.00 32.92	AAAA
ATOM	2530			A 341	6.127			1.00 33.33	AAAA
									AAAA
MOTA	2531			A 341	5.410				
ATOM	2532	CD1	ILE	A 341	6.466	48.722	55.134	1.00 35.16	AAAA
ATOM	2533	С	ILE	A 341	3.597	50.382	51.420	1.00 34.76	AAAA
MOTA	2534	ō		A 341	3.153				AAAA
									AAAA
ATOM	2535	N		A 342	3.780				
MOTA	2536	CA		A 342	3.517				AAAA
ATOM	2537	CB	SER	A 342	3.590	52.900	48.705	1.00 33.22	AAAA
MOTA	2538	OG		A 342	2.610			1.00 34.53	AAAA
					4.625				AAAA
MOTA	2539	C		A 342					AAAA
MOTA	2540	0		A 342	5.754				
ATOM	2541	N	GLY	A 343	4.304	49.391	48.287		AAAA
ATOM	2542	CA		A 343	5.300				AAAA
ATOM	2543	C		A 343	5.371				AAAA
									AAAA
MOTA	2544	0		A 343	4.461				AAAA
MOTA	2545	N	ASP	A 344	6.446	46.420	48.263	1.00 33.58	mmm

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ATOM	2546	CA	ASP A	A 34	4 6.586	45.149	48.943	1.00 33.45	AAAA
ATOM	2547	CB	ASP 2	A 34	4 6.799	43.980	47.941	1.00 34.67	AAAA
MOTA	2548	CG	ASP 2	A 34	4 7.574	44.374	46.655	1.00 37.89	AAAA
MOTA	2549	OD1	ASP 2	4 34	4 8.829	44.328	46.636	1.00 38.53	AAAA
MOTA	2550		ASP A			44.708	45.640	1.00 35.87	AAAA
ATOM	2551	С	ASP A				49.986	1.00 33.21	AAAA
ATOM	2552	0	ASP 7				49.978	1.00 34.09	AAAA AAAA
ATOM	2553	N	LEU A			44.241	50.912	1.00 30.83 1.00 27.52	AAAA
ATOM	2554 2555	CA CB	LEU I				51.969 53.357	1.00 27.52	AAAA
ATOM ATOM	2556	CG	LEU 2				53.877	1.00 27.29	AAAA
ATOM	2557		LEU				53.942	1.00 28.27	AAAA
ATOM	2558		LEU .			45.912	55.264	1.00 25.73	AAAA
ATOM	2559	c	LEU			42.758	51.919	1.00 25.60	AAAA
ATOM	2560	0	LEU .	A 34	5 8.641	41.748	51.791	1.00 24.88	AAAA
ATOM	2561	N	HIS .	A 34	6 10.649	42.711	52.007	1.00 24.13	AAAA
ATOM	2562	CA	HIS.				52.017	1.00 24.67	AAAA
ATOM	2563	CB	HIS .				50.780	1.00 21.99	AAAA
ATOM	2564	CG	HIS.				49.471	1.00 21.05	AAAA
MOTA	2565		HIS.				49.175	1.00 19.73 1.00 20.79	AAAA AAAA
MOTA	2566		HIS .				48.262 47.282	1.00 20.79	AAAA
ATOM ATOM	2567 2568		HIS .				47.809	1.00 20.27	AAAA
ATOM	2569	C	HIS				53.247	1.00 24.57	AAAA
ATOM	2570	o	HIS				53.541	1.00 26.73	AAAA
ATOM	2571	N	ILE .				53.975	1.00 22.65	AAAA
ATOM	2572	CA	ILE				55.107	1.00 20.96	AAAA
ATOM	2573	CB	ILE .	A 34	7 12.435	40.043	56.451	1.00 20.20	AAAA
MOTA	2574	CG2	ILE	A 34	7 13.439	40.274	57.544	1.00 16.98	AAAA
MOTA	2575	CG1	ILE				56.506	1.00 19.43	AAAA
ATOM	2576		ILE.				57.736	1.00 16.73	AAAA
ATOM	2577	C	ILE				54.896	1.00 19.75 1.00 19.25	AAAA AAAA
ATOM	2578 2579	0	LEU				55.161 54.405	1.00 19.23	AAAA
ATOM ATOM	2580	N CA	LEU				54.137	1.00 22.41	AAAA
ATOM	2581	CB	LEU				52.764	1.00 21.31	AAAA
ATOM	2582	CG	LEU				51.654	1.00 17.67	AAAA
ATOM	2583		LEU		_		50.524	1.00 15.88	AAAA
MOTA	2584	CD2	LEU	A 34	8 14.692	37.444	51.223	1.00 18.16	AAAA
MOTA	2585	С	LEU	A 34			55.182	1.00 23.10	AAAA
MOTA	2586	0	LEU				55.955	1.00 22.89	AAAA
MOTA	2587	N	PRO				55.210	1.00 24.96	AAAA
ATOM	2588	CD	PRO				54.464 56.148	1.00 24.43 1.00 26.15	AAAA AAAA
MOTA	2589 2590	CA CB	PRO PRO				55.557	1.00 24.99	AAAA
ATOM ATOM	2591	CG	PRO				55.141	1.00 26.14	AAAA
ATOM	2592	C	PRO				56.256	1.00 27.58	AAAA
ATOM	2593	0	PRO			37.371	57.357	1.00 27.79	AAAA
ATOM	2594	N	VAL	A 3	50 20.131	37.536	55.111	1.00 28.28	AAAA
ATOM	2595	CA	VAL	A 35	30 21. <b>15</b> 5		55.097	1.00 29.85	AAAA
ATOM	2596	CB	VAL				53.673	1.00 31.11	AAAA
MOTA	2597		VAL					1.00 30.25	AAAA AAAA
MOTA	2598		VAL				53.571 56.141	1.00 29.62 1.00 28.88	AAAA
MOTA	2599	С 0	VAL VAL				56.854	1.00 20.00	AAAA
ATOM ATOM	2600 2601	N	ALA				56.242	1.00 28.53	AAAA
ATOM	2602	CA	ALA				57.185	1.00 30.16	AAAA
ATOM	2603	СВ	ALA				57.350	1.00 28.34	AAAA
ATOM	2604	С	ALA			40.941	58.541	1.00 31.59	AAAA
ATOM	2605	0	ALA	A 3			59.050	1.00 32.54	AAAA
ATOM	2606	N	PHE	A 3			59.111	1.00 32.06	AAAA
ATOM	2607	CA	PHE				60.430	1.00 31.71	AAAA
ATOM	2608	CB	PHE				61.080	1.00 28.75	AAAA
ATOM	2609	CG	PHE				60.998	1.00 29.08	АААА АААА
MOTA	2610		PHE				60.151 61.725	1.00 29.43 1.00 29.18	AAAA
MOTA	2611		PHE PHE				60.023	1.00 29.18	AAAA
ATOM ATOM	2612 2613		PHE				61.606	1.00 27.75	AAAA
ATOM	2614	CZ	PHE				60.751	1.00 28.07	AAAA
ATOM	2615	C	PHE				60.436	1.00 32.70	AAAA
ATOM	2616	0	PHE				61.456	1.00 32.27	AAAA
MOTA	2617	N	ARG	А 3			59.289	1.00 34.30	AAAA
ATOM	2618	CA	ARG				59.174	1.00 36.18	AAAA
MOTA	2619	CB	ARG						AAAA AAAA
ATOM	2620	CG	ARG	А 3	53 23.05	35.687	58.527	1.00 43.11	AAAA

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ATOM	2621	CD	ARG	Α	353	23.334	34.600	57.492	1.00 47.02	AAAA
ATOM	2622	NE	ARG	Α	353	23.358	33.260	58.084	1.00 52.71	AAAA
ATOM	2623	CZ	ARG	A	353	24.189	32.868	59.057	1.00 55.01	AAAA
ATOM	2624	NH1	ARG	A	353	25.083	33.712	59.570	1.00 54.88	AAAA
ATOM	2625	NH2	ARG	A	353	24.128	31.623	59.519	1.00 55.46	AAAA
ATOM	2626	С	ARG	Α	353	24.612	39.219	58.795	1.00 36.63	AAAA
ATOM	2627	0	ARG	Α	353	25.816	39.097	58.996	1.00 36.71	AAAA
ATOM	2628	N	GLY	Α	354	24.075	40.312	58.266	1.00 37.39	AAAA
ATOM	2629	CA	GLY	Α	354	24.914	41.408	57.832	1.00 37.72	AAAA
ATOM	2630	С	GLY	Α	354	25.252	41.128	56.383	1.00 39.16	AAAA
ATOM	2631	0	GLY	Α	354	24.891	40.070	55.872	1.00 39.55	AAAA
MOTA	2632	N	ASP	A	355	25.920	42.061	55.711	1.00 41.10	AAAA
MOTA	2633	CA	ASP	Α	355	26.306	41.870	54.309	1.00 43.01	AAAA
MOTA	2634	CB	ASP	Α	355	25.185	42.306	53.362	1.00 42.70	AAAA
ATOM	2635	CG	ASP	Α	355	25.474	41.937	51.923	1.00 43.61	AAAA
ATOM	2636	OD1	ASP	Α	355	25.662	40.737	51.624	1.00 43.53	AAAA
ATOM	2637	OD2	ASP	Α	355	25.519	42.848	51.085	1.00 44.20	AAAA
MOTA	2638	C	ASP	Α	355	27.565	42.651	53.976	1.00 43.78	AAAA
ATOM	2639	0	ASP	A	355	27.517	43.867	53.800	1.00 44.50	AAAA
ATOM	2640	N	SER	Α	356	28.683	41.939	53.870	1.00 45.03	AAAA
ATOM	2641	CA	SER	Α	356	29.978	42.553	53.587	1.00 46.10	AAAA
ATOM	2642	CB	SER	Α	356	31.088	41.744	54.266	1.00 46.34	AAAA
ATOM	2643	OG	SER	Α	356	30.887	41.679	55.667	0.01 46.23	AAAA
MOTA	2644	С	SER	Α	356	30.303	42.721	52.101	1.00 46.38	AAAA
ATOM	2645	0	SER	Α	356	31.413	42.425	51.654	1.00 45.67	AAAA
MOTA	2646	N	PHE	Α	357	29.327	43.206	51.345	1.00 46.19	AAAA
ATOM	2647	CA	PHE	Α	357	29.492	43.433	49.922	1.00 46.13	AAAA
ATOM	2648	CB	PHE	A	357	29.004	42.221	49.123	1.00 45.79	AAAA
MOTA	2649	CG	PHE	Α	35 <b>7</b>	29.748	40.950	49.427	0.01 45.98	AAAA
ATOM	2650	CD1	PHE	Α	357	31.106	40.838	49.147	0.01 46.04	AAAA
MOTA	2651	CD2	PHE	Α	357	29.091	39.866	50.000	0.01 46.03	AAAA
ATOM	2652	CE1	PHE	Α	357	31.800	39.663	49.432	0.01 46.07	AAAA
ATOM	2653	CE2	PHE	Α	357	29.776	38.686	50.289	0.01 46.07	AAAA
ATOM	2654	CZ	PHE	Α	357	31.132	38.586	50.005	0.01 46.06	AAAA
ATOM	2655	С	PHE	Α	357	28.642	44.642	49.607	1.00 46.59	AAAA
ATOM	2656	0	PHE	Α	357	28.840	45.311	48.601	1.00 46.36	AAAA
ATOM	2657	N	THR	Α	358	27.688	44.904	50.496	1.00 48.40	AAAA
ATOM	2658	CA	THR	Α	358	26.761	46.032	50.381	1.00 49.74	AAAA
ATOM	2659	CB	THR	Α	358	25.304	45.547	50.398	1.00 49.89	AAAA
ATOM	2660	OG1			358	24.458	46.545	49.821	1.00 50.66	AAAA
ATOM	2661	CG2			358	24.856	45.276	51.831	1.00 50.72	AAAA
ATOM	2662	С	THR	Α	358	26.992	46.935	51.596	1.00 49.91	AAAA
MOTA	2663	0			358	26.287	47.926	51.817	1.00 49.11	AAAA
ATOM	2664	И			. 359	27.998	46.552	52.375	1.00 49.96	AAAA
MOTA	2665	CA			359	28.394	47.255	53.575	1.00 49.75	AAAA
MOTA	2666	CB			359	29.119	48.547	53.221	1.00 51.53	AAAA
ATOM	2667	CG			359	30.573	48.346	52.936	1.00 53.85	AAAA
MOTA	2668				359	31.612	48.086	53.765	1.00 54.00	AAAA
MOTA	2669				359			51.659	1.00 55.08	AAAA
MOTA	2670				359	32.388	48.101	51.713	1.00 55.44	AAAA
ATOM	2671				359	32.728	47.937			AAAA AAAA
ATOM	2672	Ç			359	27.263	47.532	54.530	1.00 48.81	AAAA
ATOM	2673	0			359	26.965	48.681		1.00 49.35 1.00 46.71	AAAA
ATOM	2674	N			360	26.630	46.458		1.00 45.14	AAAA
ATOM	2675	CA			360	25.548	46.574		1.00 45.14	AAAA
ATOM	2676	CB			360	24.223	46.012			AAAA
ATOM	2677				360		46.939		1.00 45.78	AAAA
ATOM	2678				360	23.290	45.749		1.00 43.76	AAAA
ATOM	2679	С			360	25.877	45.774 44.582	57.169		AAAA
ATOM	2680	0			360	26.137				AAAA
ATOM	2681	И			361	25.867	46.423			AAAA
ATOM	2682	CD			361	25.605	47.845			AAAA
MOTA	2683	CA			361	26.168	45.688			AAAA
ATOM	2684	CB			361		46.795		1.00 39.38	AAAA
MOTA	2685	CG			361	25.278	47.814		1.00 38.12	AAAA
ATOM	2686	C			361	25.010	44.736			AAAA
ATOM	2687	O N			361	23.931	44.900			AAAA
ATOM	2688	N			362	25.218	43.715			AAAA
ATOM	2689	CD			362	26.405	43.341			AAAA
ATOM	2690	CA			362	24.106	42.803			AAAA
ATOM	2691	CB			362	24.727	41.768			AAAA
ATOM ATOM	2692 2693	CG C			A 362 A 362	25.794 23.006	42.539 43.636			AAAA
ATOM	2693				A 362	23.280	43.636			AAAA
ATOM	2695				A 363	21.770	43.150			AAAA
WI OU	2093	14	ומני	, ,	, 202	24.770	-2.120	U1.JJ1	1.00 10.10	•

ATOM	2696	CA	LEU	Д	363		20.675	43.927	62.174	1.00 40.63	AAAA
ATOM	2697	СВ	LEU				19.336	43.470	61.591	1.00 39.43	
ATOM	2698	CG	LEU				18.287	44.551	61.333	1.00 37.78	AAAA
ATOM	2699	CD1	LEU	Α	363		16.907	43.909	61.320	1.00 37.99	AAAA
ATOM	2700	CD2	LEU				18.363	45.618	62.399	1.00 36.56	
ATOM	2701	С	LEU				20.609	43.873	63.693	1.00 41.3	
ATOM	2702	0	LEU				21.585	44.156	64.372	1.00 42.50	
ATOM	2703	N	ASP			-	19.446	43.512	64.215	1.00 41.89	
ATOM	2704	CA	ASP				19.217	43.413	65.646	1.00 42.93	
ATOM	2705	CB	ASP				19.470	44.742	66.346	1.00 45.55	
ATOM ATOM	2706	CG	ASP ASP				18.838	44.799	67.738 67.861	1.00 49.19	
ATOM	2707 2708		ASP				17.600 19.587	44.610 45.039	68.712	1.00 50.99	
ATOM	2709	C	ASP				17.772	43.063	65.828	1.00 42.85	
ATOM	2710	0	ASP				16.895	43.821	65.461	1.00 43.49	
ATOM	2711	N	PRO				17.498	41.917	66.424	1.00 43.16	
ATOM	2712	CD	PRO				18.446	40.955	67.002	1.00 43.79	
ATOM	2713	CA	PRO				16.118	41.496	66.637	1.00 44.05	
ATOM	2714	CB	PRO	Α	365		16.264	40.374	67.651	1.00 45.08	AAAA
ATOM	2715	CG	PRO	Α	365		17.565	39.751	67.246	1.00 45.03	L AAAA
ATOM	2716	С	PRO	Α	365		15.206	42.600	67.139	1.00 44.84	AAAA
ATOM	2717	0	PRO				14.234	42.972	66.487	1.00 44.3	
MOTA	2718	N	GLN	Α	366		15.537	43.128	68.307	1.00 46.50	
ATOM	2719	CA	GLN				14.726	44.159	68.937	1.00 47.00	
ATOM	2720	CB	GLN				15.371	44.604	70.252	1.00 49.89	
ATOM	2721	CG	GLN				15.459	43.494	71.304	1.00 52.59	
ATOM	2722	CD	GLN				16.118	42.229	70.769	1.00 55.38	
ATOM	2723		GLN				17.267	42.257	70.304 70.824	1.00 56.58	
ATOM ATOM	2724 2725	C NF2	GLN GLN				15.390 14.530	41.112 45.336	68.021	1.00 45.23	
ATOM	2726	0	GLN				13.642	46.158	68.231	1.00 45.0	
ATOM	2727	N	GLU				15.353	45.403	66.988	1.00 43.70	
ATOM	2728	CA	GLU				15.262	46.496	66.039	1.00 42.83	
ATOM	2729	СВ	GLU				16.549	46.605	65.234	1.00 42.28	
ATOM	2730	CG	GLU	Α	367		16.670	47.912	64.521	1.00 43.3	5 AAAA
MOTA	2731	CD	GLU	А	367		16.888	49.043	65.487	1.00 43.5	2 AAAA
ATOM	2732	OE1	GLU	Α	367		17.945	49.040	66.154	1.00 44.63	AAAA
MOTA	2733		GLU				16.007	49.923	65.586	1.00 41.73	
ATOM	2734	С	GLU				14.090	46.337	65.085	1.00 41.63	
ATOM	2735	0	GLU				13.681	47.302	64.452	1.00 41.78	
ATOM	2736	N	LEU				13.561	45.120	64.985	1.00 40.33	
ATOM	2737	CA CB	LEU				12.448	44.833	64.093 63.769	1.00 39.20	
ATOM ATOM	2738 2739	CG	LEU				12.378 13.376	43.329 42.610	62.839	1.00 40.99	
ATOM	2740		LEU				13.114	41.107	62.895	1.00 40.0	
ATOM	2741		LEU				13.241	43.103	61.400	1.00 40.69	
ATOM	2742	C	LEU				11.144	45.259	64.729	1.00 38.33	
ATOM	2743	0	LEU	А	368		10.093	45.208	64.106	1.00 38.6	AAAA
MOTA	2744	N	ASP	А	369		11.214	45.684	65.978	1.00 38.0	7 AAAA
MOTA	2745	CA	ASP				10.018	46.096	66.704	1.00 38.8	
MOTA	2746	CB	ASP				10.375	46.331	68.173	1.00 40.5	
ATOM	2747	CG			369		10.563	45.030	68.935	1.00 43.5	
ATOM	2748		ASP				11.062	44.054	68.326	1.00 43.80	
ATOM	2749		ASP				10.216	44.984	70.139	1.00 45.23	
ATOM	2750	С О			369 369		9.341 8.199	47.330 47.661	66.122 66.474	1.00 37.7	
ATOM ATOM	2751 2752	N			370		10.045	47.985	65.208	1.00 37.3	
ATOM	2753	CA			370		9.565	49.203	64.576	1.00 33.9	
ATOM	2754	CB			370		10.696	49.812	63.763	1.00 32.0	
ATOM	2755		ILE				10.374	51.247	63.420	1.00 32.73	
ATOM	2756		ILE				11.983	49.726	64.579	1.00 30.1	
ATOM	2757		ILE				13.204	50.164	63.871	1.00 27.7	
ATOM	2758	С			370		8.339	49.010	63.685	1.00 34.3	AAAA S
MOTA	2759	0			370		7.446	49.857	63.637	1.00 33.5	B AAAA
MOTA	2760	N	LEU	A	371		8.297	47.875	63.000	1.00 35.3	AAAA c
MOTA	2761	CA	LEU				7.218	47.551	62.075	1.00 36.3	
ATOM	2762	CB	LEU				7.587	46.269	61.317	1.00 35.5	
ATOM	2763	CG			371		8.943	46.337	60.596	1.00 35.70	
ATOM	2764		LEU				9.314	44.991	59.981	1.00 34.80	
MOTA	2765		LEU				8.874	47.411	59.525	1.00 35.83	
ATOM	2766	C			371		5.830	47.406	62.711	1.00 36.9	
ATOM ATOM	2767 2768	O N			371 372		4.872 5.704	47.002 47.757	62.041 63.985	1.00 37.6	
ATOM	2769	n CA			372		4.422	47.757	64.658	1.00 36.4	
ATOM	2770	CB			372		4.422	47.687	66.177	1.00 38.3	
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ATOM	2771		LYS A		5.361	46.492	66.779	1.00 38.36	AAAA
ATOM	2772	CD	LYS A	372	5.417	46.565	68.298	0.01 38.20	AAAA
ATOM	2773	CE	LYS A	372	6.190	47.782	68.779	0.01 38.18	AAAA
ATOM	2774	NZ	LYS A	372	6.293	47.816	70.265	0.01 38.30	AAAA
ATOM	2775	С	LYS A	372	3.365	48.611	64.210	1.00 36.58	AAAA
ATOM	2776		LYS A		2.187	48.485	64.554	1.00 35.43	AAAA
MOTA	2777		THR A		3.788	49.601	63.431	1.00 36.95	AAAA
	2778		THR A		2.873	50.627	62.930	1.00 37.23	AAAA
MOTA	_						62.907	1.00 36.94	AAAA
MOTA	2779		THR A		3.564	51.991		1.00 30.34	AAAA
ATOM	2780		THR A		4.762	51.930	63.690		
ATOM	2781	CG2	THR A		2.646	53.055	63.482	1.00 37.38	AAAA
MOTA	2782	С	THR A	373	2.386	50.286	61.514	1.00 37.37	AAAA
ATOM	2783	0	THR A	373	1.381	50.813	61.041	1.00 37.04	AAAA
ATOM	2784	N	VAL A	374	3.125	49.402	60.849	1.00 37.19	AAAA
MOTA	2785	CA	VAL A	374	2.809	48.938	59.502	1.00 35.62	AAAA
ATOM	2786	CB	VAL A		3.898	47.971	58.965	1.00 35.91	AAAA
ATOM	2787		VAL A		3.415	47.302	57.696	1.00 34.07	AAAA
					5.199	48.716	58.716	1.00 35.64	AAAA
ATOM	2788		VAL A					1.00 34.77	AAAA
ATOM	2789	С	VAL A		1.527	48.157	59.607		
ATOM	2790	0	VAL A		1.548	47.021	60.061	1.00 36.17	AAAA
MOTA	2791	N	LYS P	375	0.413	48.749	59.201	1.00 33.97	AAAA
MOTA	2792	CA	LYS A	375	-0.862	48.050	59.285	1.00 33.78	AAAA
ATOM	2793	CB	LYS A	375	-1.858	48.883	60.078	1.00 35.98	AAAA
ATOM	2794	CG	LYS A	375	-1.849	50.344	59.703	1.00 40.41	AAAA
ATOM	2795	CD	LYS F		-2.623	51.173	60.713	1.00 46.26	AAAA
ATOM	2796	CE	LYS A		-1.947	51.177	62.086	1.00 49.95	AAAA
					-0.639	51.918	62.095	1.00 52.83	AAAA
ATOM	2797	NZ	LYS A				57.920	1.00 32.03	AAAA
MOTA	2798	C	LYS A		-1.425	47.719			
MOTA	2799	0		a 375	-2.466	47.072	57.813	1.00 31.82	AAAA
MOTA	2800	N	GLU A	A 376	-0.720	48.159	56.881	1.00 30.42	AAAA
ATOM	2801	CA	GLU A	A 376	-1.124	47.913	55.504	1.00 28.60	AAAA
ATOM	2802	CB	GLU A	A 376	-2.072	49.001	55.028	1.00 30.98	AAAA
ATOM	2803	CG	GLU A	A 376	-2.610	48.777	53.640	1.00 34.83	AAAA
ATOM	2804	CD		A 376	-3.320	50.001	53.078	1.00 37.57	AAAA
	2805		GLU 2		-4.263	50.507	53.729	1.00 38.54	AAAA
ATOM					-2.936	50.451	51.975	1.00 38.52	AAAA
MOTA	2806		GLU Z					1.00 26.77	AAAA
MOTA	2807	С		A 376	0.068	47.879	54.572		
ATOM	2808	0		A 376	0.938	48.727	54.638	1.00 24.14	AAAA
MOTA	2809	N	ILE :	A 377	0.089	46.885	53.697	1.00 26.83	AAAA
MOTA	2810	CA	ILE 3	A 377	1.149	46.722	52.706	1.00 26.23	AAAA
ATOM	2811	CB	ILE :	A 377	1.952	45.405	52.947	1.00 24.24	AAAA
ATOM	2812	CG2	ILE :	A 377	3.071	45.292	51.929	1.00 23.65	AAAA
ATOM	2813		ILE .		2.509	45.372	54.371	1.00 21.92	AAAA
ATOM	2814		ILE .		3.315	44.138	54.723	1.00 18.33	AAAA
					0.448	46.625	51.341	1.00 27.37	AAAA
MOTA	2815	C		A 377				1.00 28.29	AAAA
MOTA	2816	0		A 377	-0.417	45.762	51.172		AAAA
MOTA	2817	N		A 378	0.787	47.498	50.384	1.00 26.78	
ATOM	2818	CA	THR	A 378	0.154	47.433	49.057	1.00 26.39	AAAA
ATOM	2819	CB	THR	A 378	0.204	48.766	48.300	1.00 25.65	AAAA
MOTA	2820	OG1	THR	A 378	1.546	49.250	48.246	1.00 27.23	AAAA
MOTA	2821	CG2	THR	A 378	-0.665	49.773	48.968	1.00 26.52	AAAA
ATOM	2822	С		A 378	0.815	46.378	48.189	1.00 26.50	AAAA
ATOM	2823	ō		A 378	0.149		47.440	1.00 28.53	AAAA
	2824			A 379	2.132		48.280	1.00 26.30	AAAA
MOTA		N					47.512	1.00 25.36	AAAA
ATOM	2825	CA		A 379	2.823				AAAA
MOTA	2826	С		A 379	2.595		48.175	1.00 24.97	
MOTA	2827	0		A 379	1.456		48.240		AAAA
ATOM	2828	N	PHE	A 380	3.671	43.295	48.676	1.00 23.32	AAAA
ATOM	2829	CA	PHE	A 380	3.558	41.995	49.342	1.00 20.36	AAAA
MOTA	2830	CB	PHE	A 380	3.814	40.855	48.336	1.00 17.65	AAAA
MOTA	2831	CG		A 380	5.227	40.776	47.817	1.00 14.96	AAAA
ATOM	2832			A 380	6.280				AAAA
	2833			A 380	5.491				AAAA
MOTA									AAAA
ATOM	2834			A 380	7.564				AAAA
MOTA	2835			A 380	6.785				
ATOM	2836			A 380	7.813				AAAA
ATOM	2837	С	PHE	A 380	4.443				AAAA
ATOM	2838			A 380	5.214	42.702	50.955	1.00 20.13	AAAA
ATOM	2839			A 381	4.303		51.238	1.00 17.42	AAAA
MOTA	2840			A 381	5.073				AAAA
	2841			A 381	4.144				AAAA
MOTA									AAAA
ATOM	2842			A 381	4.760				AAAA
MOTA	2843			A 381	6.111				AAAA
ATOM	2844			A 381	3.814				
MOTA	2845	C	LEU	A 381	5.785	39.022	52.197	1.00 17.34	AAAA

ATOM	2846	0	LEU A	381	5.138	38.027	51.914	1.00 17.92	AAAA
ATOM	2847	N	LEU A		7.109		52.322	1.00 17.06	AAAA
ATOM	2848	CA	LEU A	382	7.890	37.793	52.130	1.00 16.36	AAAA
ATOM	2849	CB	LEU A	382	8.551	37.877	50.760	1.00 14.31	AAAA
ATOM	2850	CG	LEU A	382	9.329	36.791	50.016	1.00 14.45	AAAA
ATOM	2851	CD1	LEU A	382	- 9.911	37.494	48.820	1.00 13.91	AAAA
ATOM	2852	CD2	LEU A	382	10.446	36.173	50.818	1.00 13.22	AAAA
ATOM	2853	С	LEU A	382	8.954	37.601	53.241	1.00 17.77	AAAA
ATOM	2854	0	LEU A	382	9.998	38.253	53.231	1.00 18.23	AAAA
ATOM	2855	N	ILE A		8.687	36.725	54.210	1.00 17.68	AAAA
ATOM	2856	CA	ILE A	383	9.653	36.469	55.287	1.00 17.23	AAAA
ATOM	2857	CB	ILE A	383	8.983	36.296	56.702	1.00 16.19	AAAA
ATOM	2858	CG2	ILE A	383	10.056	35.995	57.751	1.00 15.67	AAAA
ATOM	2859	CG1	ILE A	383	8.244	37.560	57.128	1.00 15.01	AAAA
ATOM	2860	CD1	ILE A	383	6.871	37.650	56.621	1.00 16.40	AAAA
ATOM	2861	С	ILE A	383	10.396	35.173	54.984	1.00 16.22	AAAA
ATOM	2862	0	ILE A	383	9.793	34.117	54.904	1.00 16.12	AAAA
ATOM	2863	N	GLN A	384	11.706	35.259	54.816	1.00 16.26	AAAA
ATOM	2864	CA	GLN A	384	12.517	34.082	54.533	1.00 18.54	AAAA
ATOM	2865	CB	GLN A	384	13.348	34.282	53.270	1.00 16.65	AAAA
ATOM.	2866	ÇG	GLN A	384	12.630	33.950	52.006	1.00 16.87	AAAA
ATOM	2867	CD	GLN A	384	13.574	33.977	50.847	1.00 20.47	AAAA
ATOM	2868	OE1	GLN A	384	14.692	33.486	50.955	1.00 23.82	AAAA
ATOM	2869	NE2	GLN A	384	13.145	34.545	49.728	1.00 21.10	AAAA
ATOM	2870	С	GLN A	384	13.443	33.744	55.684	1.00 19.30	AAAA
ATOM	2871	0	GLN A	384	13.895	32.610	55.821	1.00 19.44	AAAA
ATOM	2872	N	ALA A	385	13.716	34.752	56.499	1.00 20.72	AAAA
ATOM	2873	CA	ALA A	385	14.574	34.631	57.665	1.00 22.20	AAAA
ATOM	2874	CB	ALA A	385	15.873	35.341	57.417	1.00 20.63	AAAA
ATOM	2875	С	ALA A	385	13.832	35.297	58.807	1.00 24.15	AAAA
MOTA	2876	0	ALA A	385	12.887	36.055	58.563	1.00 24.35	AAAA
ATOM	2877	N	TRP A	386	14.239	35.001	60.043	1.00 26.14	AAAA
ATOM	2878	CA	TRP A	386	13.618		61.226	1.00 27.11	AAAA
MOTA	2879	CB	TRP A	386	12.232	35.005	61.490	1.00 25.61	AAAA
MOTA	2880	CG	TRP A	386	11.385	35.904	62.333	1.00 26.84	AAAA
ATOM	2881	CD2	TRP A	386	10.884	37.199	61.970	1.00 26.81	AAAA
ATOM	2882	CE2	TRP A	386	10.257	37.742	63.115	1.00 27.24	AAAA
MOTA	2883	CE3			10.914		60.792	1.00 26.25	AAAA
ATOM	2884	CD1	TRP A		11.038		63.641	1.00 28.21	AAAA
ATOM	2885	NE1			10.364		64.119	1.00 28.49	AAAA
MOTA	2886		TRP F		9.664		63.114	1.00 26.97	AAAA
MOTA	2887		TRP A		10.329		60.788	1.00 26.99	AAAA
ATOM	2888	CH2			9.711		61.942	1.00 27.99	AAAA
ATOM	2889	С	TRP A		14.504		62.446	1.00 29.37	AAAA
MOTA	2890	0	TRP P		15.247		62.532	1.00 30.57	AAAA
ATOM	2891	N	PRO P		14.453		63.403	1.00 32.46	AAAA
ATOM	2892	CD	PRO P		13.668		63.420	1.00 32.34	AAAA
MOTA	2893	CA	PRO P		15.269		64.611	1.00 33.55	AAAA
ATOM	2894	CB	PRO P		14.673		65.486	1.00 32.94	AAAA AAAA
ATOM	2895	CG	PRO P		14.337		64.504	1.00 31.72 1.00 36.38	AAAA
ATOM	2896	C	PRO P		15.255		65.281		AAAA
ATOM	2897	0	PRO P		14.195		65.575	1.00 36.25 1.00 39.78	AAAA
MOTA	2898	N	GLU A		16.461 16.709		65.518 66.148	1.00 41.63	AAAA
ATOM ATOM	2899 2900	CA CB	GLU A		18.201		66.488	1.00 42.15	AAAA
ATOM	2900	CG	GLU A		18.583		67.172	0.01 41.61	AAAA
ATOM	2902	CD	GLU A		20.054		67.534	0.01 41.54	AAAA
ATOM	2903		GLU A		20.507		68.311	0.01 41.34	AAAA
ATOM	2904		GLU F		20.758		67.043	0.01 41.39	AAAA
ATOM	2905	C	GLU F		15.901		67.409	1.00 41.82	AAAA
ATOM	2906	0	GLU F		15.315		67.553	1.00 41.17	AAAA
ATOM	2907	N	ASN A		15.881		68.322	1.00 42.74	AAAA
ATOM	2908	CA	ASN A				69.582	1.00 44.29	AAAA
ATOM	2909	CB	ASN A		15.862		70.671	1.00 46.82	AAAA
ATOM	2910	CG	ASN A				70.834	1.00 50.72	AAAA
ATOM	2911		ASN A				71.167	1.00 52.31	AAAA
ATOM	2912		ASN A				70.593	1.00 53.00	AAAA
ATOM	2913	C	ASN A				69.549	1.00 42.77	AAAA
ATOM	2914	Ö	ASN A				70.579	1.00 42.38	AAAA
ATOM	2915	N	ARG A				68.375	1.00 40.66	AAAA
ATOM	2916	CA	ARG A				68.250	1.00 37.58	AAAA
ATOM	2917	CB	ARG A				67.165	1.00 36.74	AAAA
ATOM	2918	CG	ARG A				67.510	1.00 36.46	AAAA
ATOM	2919	CD	ARG A				67.673	1.00 36.13	AAAA
ATOM	2920	NE	ARG A				67.694	1.00 32.95	AAAA

MOTA	2921	CZ	ARG A	390	11.220	40.604	67.560	1.00 31.66	AAAA
ATOM	2922		ARG A		9.899	40.523	67.398	1.00 28.04	AAAA
ATOM	2923		ARG A		11.823	41.784	67.590	1.00 30.24	AAAA
MOTA	2924	С	ARG A		10.812	33.568	67.984	1.00 35.12	AAAA
MOTA	2925	0	ARG A	390	11.144	32.607	67.288	1.00 35.20	AAAA
MOTA	2926	N	THR A	391	9.616	33.676	68.547	1.00 32.32	AAAA
MOTA	2927	CA	THR A	391	8.610	32.632	68.406	1.00 30.62	AAAA
ATOM	2928	СВ	THR A		8.074	32.190	69.798	1.00 31.70	AAAA
ATOM	2929		THR A		9.101	31.484	70.503	1.00 32.19	AAAA
MOTA	2930	CG2	THR A	391	6.882	31.287	69.654	1.00 31.88	AAAA
MOTA	2931	С	THR A	391	7.450	33.027	67.496	1.00 27.76	AAAA
ATOM	2932	0	THR A	391	7.297	32.432	66.438	1.00 26.88	AAAA
MOTA	2933	N	ASP A		6.615	33.991	67.893	1.00 25.00	AAAA
ATOM	2934	CA	ASP A		5.539	34.375	66.997	1.00 22.77	AAAA
								1.00 20.35	AAAA
ATOM	2935	CB	ASP A		4.271	34.961	67.738		
ATOM	2936	CG	ASP A		4.577	36.043	68.850	1.00 20.59	AAAA
ATOM	2937	OD1	ASP A	392	5.689	35.985	69.426	1.00 22.98	AAAA
ATOM	2938	OD2	ASP A	392	3.681	36.915	69.176	1.00 6.51	AAAA
ATOM	2939	С	ASP A	392	6.143	35.348	65.993	1.00 23.96	AAAA
ATOM	2940	0	ASP A	392	7.315	35.706	66.119	1.00 22.39	AAAA
ATOM	2941	N	LEU A		5.389	35.691	64.949	1.00 24.90	AAAA
ATOM	2942	CA	LEU A		5.851	36.679	63.986	1.00 25.10	AAAA
MOTA	2943	CB	LEU A		5.182	36.504	62.628	1.00 24.86	AAAA
MOTA	2944	CG	LEU A	393	5.755	35.534	61.598	1.00 25.17	AAAA
MOTA	2945	CD1	LEU A	393	4.825	35.534	60.396	1.00 26.28	AAAA
ATOM	2946	CD2	LEU A	393	7.161	35.940	61.191	1.00 23.61	AAAA
ATOM	2947	С	LEU A	393	5.378	37.986	64.603	1.00 26.53	AAAA
ATOM	2948	ō	LEU A		4.809	38.838	63.927	1.00 26.22	AAAA
								1.00 28.69	AAAA
ATOM	2949	N	HIS A		5.582	38.110	65.912		
ATOM	2950	CA	HIS A		5.189	39.303	66.645	1.00 31.28	AAAA
MOTA	2951	CB	HIS A	394	5.348	39.103	68.165	1.00 31.31	AAAA
ATOM	2952	CG	HIS A	394	5.100	40.337	68.976	0.01 30.34	AAAA
ATOM	2953	CD2	HIS A	394	4.245	40.571	70.000	0.01 30.06	AAAA
ATOM	2954		HIS A		5.807	41.506	68.794	0.01 30.08	AAAA
ATOM	2955		HIS A		5.399	42.406	69.672	0.01 29.82	AAAA
					4.452		70.415	0.01 29.81	AAAA
ATOM	2956		HIS A			41.863			
MOTA	2957	С	HIS A		6.067	40.440	66.167	1.00 32.83	AAAA
MOTA	2958	0	HIS A	. 394	7.305	40.411	66.329	1.00 33.85	AAAA
MOTA	2959	N	ALA A	. 395	5.393	41.419	65.569	1.00 31.28	AAAA
ATOM	2960	CA	ALA A	. 395	5.989	42.626	65.018	1.00 31.26	AAAA
ATOM	2961	CB	ALA A	395	7.360	42.348	64.404	1.00 29.67	AAAA
ATOM	2962	C	ALA A		4.992	42.989	63.942	1.00 30.83	AAAA
ATOM	2963	Õ	ALA A		4.652	44.159	63.728	1.00 31.98	AAAA
							63.267	1.00 28.91	AAAA
MOTA	2964	N	PHE A		4.516	41.954			
MOTA	2965	CA	PHE A		3.528	42.125	62.226	1.00 26.89	AAAA
MOTA	2966	CB	PHE A	396	3.808	41.161	61.075	1.00 21.32	AAAA
MOTA	2967	CG	PHE A	396	4.875	41.632	60.128	1.00 17.99	AAAA
ATOM	2968	CD1	PHE A	396	4.655	42.718	59.294	1.00 18.40	AAAA
ATOM	2969	CD2	PHE A	396	6.080	40.965	60.030	1.00 18.25	AAAA
ATOM	2970		PHE A		5.618	43.129	58.373	1.00 15.62	AAAA
ATOM	2971		PHE A		7.048	41.370	59.111	1.00 18.33	AAAA
ATOM	2972	CZ	PHE A		6.810	42.453	58.285	1.00 17.35	AAAA
ATOM	2973	C	PHE A		2.184	41.824	62.889	1.00 27.58	AAAA
MOTA	2974	0	PHE A		1.178	41.600	62.227	1.00 28.16	AAAA
ATOM	2975	N	GLU A	397	2.186	41.828	64.216	1.00 28.26	AAAA
ATOM	2976	CA	GLU A	397	0.979	41.549	64.977	1.00 29.34	AAAA
MOTA	2977	CB	GLU A		1.225	41.750	66.468	1.00 28.76	AAAA
ATOM	2978	CG	GLU F		1.702	43.152	66.817	0.01 28.09	AAAA
			GLU F		1.739	43.406		0.01 27.69	AAAA
ATOM	2979	CD							
ATOM	2980		GLU F		2.383	42.618	69.030	0.01 27.41	AAAA
MOTA	2981	OE2	GLU A	397	1.128	44.397	68.759	0.01 27.38	AAAA
ATOM	2982	С	GLU A	397	-0.155	42.454	64.5 <b>4</b> 9	1.00 30.45	AAAA
ATOM	2983	0	GLU A	397	-1.325	42.084	64.655	1.00 29.16	AAAA
ATOM	2984	N	ASN A		0.190	43.640	64.063	1.00 31.46	AAAA
ATOM	2985	CA	ASN A		-0.839	44.573		1.00 32.47	AAAA
ATOM	2986	CB	ASN A		-0.563	45.943		1.00 33.05	AAAA
									AAAA
ATOM	2987	CG	ASN A		-0.836	45.978	65.744	1.00 33.60	
MOTA	2988		. ASN A		-1.878	45.508		1.00 33.22	AAAA
ATOM	2989	ND2	ASN A	A 398	0.092	46.538	66.510	1.00 35.10	AAAA
MOTA	2990	С	ASN A	398	-1.089	44.691	62.177	1.00 33.08	AAAA
ATOM	2991	0	ASN A	8eE A	-2.014	45.388		1.00 33.98	AAAA
ATOM	2992	N	LEU A		-0.276	44.020			AAAA
ATOM	2993	CA	LEU A		-0.479	44.051			AAAA
				A 399	0.566			1.00 34.10	AAAA
ATOM	2994	CB				43.189			AAAA
MOTA	2995	CG	TEO Y	A 399	0.387	43.095	57.704	1.00 33.81	AAAA

ATOM	2996	CD1	LEU A	399	0.792	44.406	57.075	1.00 34.05	AAAA
ATOM	2997		LEU 2		1.223	41.973	57.144	1.00 32.61	AAAA
MOTA	2998	С	LEU A		-1.867	43.461	59.719	1.00 34.57	AAAA
ATOM	2999	0	LEU A	399	-2.150	42.386	60.230	1.00 34.31	AAAA
ATOM	3000	N	GLU Z	400	-2.732	44.151	58.981	1.00 36.49	AAAA
ATOM	3001	CA	GLU Z		-4.088	43.650	58.761	1.00 38.71	AAAA
ATOM	3002	CB	GLU A	4 400	-5.083	44.444	59.605	1.00 40.21	AAAA
ATOM	3003	CG	GLU Z	400	-4.781	45.927	59.720	1.00 43.91	AAAA
MOTA	3004	CD	GLU Z		-5.728	46.641	60.680	1.00 46.05	AAAA
MOTA	3005	OE1	GLU A	4 400	-5.439	47.800	61.048	1.00 47.71	AAAA
ATOM	3006	OE2	GLU A	400	-6.766	46.050	61.061	1.00 46.57	AAAA
ATOM	3007	С	GLU A	400	-4.582	43.605	57.320	1.00 39.24	AAAA
							57.071		AAAA
ATOM	3008	0	GLU Z		-5.725	43.217		1.00 40.47	
ATOM	3009	N	ILE A	4 401	-3.723	43.983	56.375	1.00 38.20	AAAA
ATOM	3010	CA	ILE 2	401	-4.074	43.977	54.957	1.00 35.95	AAAA
ATOM	3011	CB	ILE A		-4.971	45.211	54.581	1.00 36.24	AAAA
ATOM	3012		ILE A		-4.824	45.572	53.110	1.00 35.40	AAAA
ATOM	3013	CG1	ILE A	4 401	-6.439	44.907	54.877	1.00 35.97	AAAA
ATOM	3014	CD1	ILE A	401	-7.397	46.002	54.446	1.00 34.29	AAAA
ATOM	3015	С	ILE 2		-2.846	43.966	54.048	1.00 34.65	AAAA
MOTA	3016	0	ILE A		-2.018	44.875	54.075	1.00 34.14	AAAA
ATOM	3017	N	ILE A	4 402	-2.728	42.903	53.266	1.00 33.13	AAAA
ATOM	3018	CA	ILE A	402	-1.669	42.770	52.278	1.00 31.77	AAAA
ATOM	3019	CB		402	-0.939	41.414	52.387	1.00 31.12	AAAA
ATOM	3020		ILE A		0.121	41.310	51.310	1.00 30.45	AAAA
MOTA	3021	CG1	ILE A	402	-0.286	41.275	53.764	1.00 31.27	AAAA
ATOM	3022	CDI	ILE A	402	0.466	39.955	53.976	1.00 30.83	AAAA
ATOM	3023	С	ILE A		-2.533	42.795	51.015	1.00 31.01	AAAA
ATOM	3024	0	ILE A	402	-3.353	41.905	50.829	1.00 30.87	AAAA
ATOM	3025	N	ARG Z	4 4 0 3	-2.379	43.819	50.175	1.00 29.97	AAAA
ATOM	3026	CA	ARG 2		-3.199	43.961	48.968	1.00 28.60	AAAA
MOTA	3027	CB	ARG A	4 403	-3.325	45.435	48.580	1.00 30.57	AAAA
ATOM	3028	CG	ARG 2	403	-4.044	46.286	49.608	1.00 31.43	AAAA
ATOM	3029	CD	ARG Z	403	-4.172	47.712	49.128	1.00 31.13	AAAA
ATOM	3030	NE		A 403	-4.524	48.613	50.217	1.00 31.94	AAAA
ATOM	3031	C2	ARG A	A 403	-5.725	48.683	50.782	1.00 33.33	AAAA
ATOM	3032	NH1	ARG 2	403	-6.710	47.901	50.359	1.00 34.25	AAAA
ATOM	3033	NH2	ARG 2	403	-5.936	49.535	51.775	1.00 32.31	AAAA
					-2.799		47.735	1.00 26.49	AAAA
ATOM	3034	С		403		43.179			
ATOM	3035	0	ARG Z	4 403	-3.652	42.761	46.967	1.00 27.85	AAAA
ATOM	3036	N	GLY 2	A 404	-1.516	43.001	47.506	1.00 23.74	AAAA
ATOM	3037	CA	GLY I	404	-1.136	42.244	46.334	1.00 22.08	AAAA
					-1.030		45.010	1.00 20.50	AAAA
ATOM	3038	C	GLY I			42.983			
ATOM	3039	0	GLY 2	4 404	-1.103	42.347	43.950	1.00 20.17	AAAA
ATOM	3040	N	ARG 2	A 405	-0.855	44.305	45.066	1.00 18.31	AAAA
ATOM	3041	CA	ARG Z	405	-0.705	45.121	43.870	1.00 16.26	AAAA
	3042	CB	ARG 2		-0.482			1.00 15.89	AAAA
ATOM						46.578	44.254		
ATOM	3043	CG	ARG 2	4 405	-1.677	47.251	44.868	1.00 17.86	AAAA
ATOM	3044	CD	ARG 2	A 405	-2.495	48.010	43.841	1.00 18.89	AAAA
MOTA	3045	NE	ARG 2	405	-3.788	48.397	44.383	1.00 18.80	AAAA
								1.00 21.29	AAAA
ATOM	3046	CZ	ARG 2		-3.954	49.248	45.383		
MOTA	3047	NHI	ARG 2	4 405	-2.903	49.825	45.957	1.00 20.18	AAAA
ATOM	3048	NH2	ARG 2	405	-5.175	49.488	45.835	1.00 21.72	AAAA
ATOM	3049	С	ARG 2	405	0.517	44.595	43.128	1.00 16.34	AAAA
	3050	o	ARG A		0.680	44.808	41.929	1.00 15.49	AAAA
ATOM									
ATOM	3051	N	THR 2		1.384	43.922	43.877	1.00 16.74	AAAA
ATOM	3052	CA	THR I	406	2.589	43.313	43.338	1.00 16.80	AAAA
ATOM	3053	CB		A 406	3.796	44.122	43.711	1.00 14.44	AAAA
	3054		THR 2		3.385	45.217	44.525	1.00 13.37	AAAA
ATOM									
ATOM	3055	CG2	THR I	4 406	4.451	44.666	42.470	1.00 14.56	AAAA
MOTA	3056	С	THR I	A 406	2.661	41.935	43.970	1.00 19.08	AAAA
ATOM	3057	0		A 406	2.096	41.733	45.026	1.00 21.84	AAAA
								1.00 21.04	AAAA
ATOM	3058	N		A 407	3.321	40.975	43.339		
ATOM	3059	CA	LYS :		3.394	39.631	43.918	1.00 24.24	AAAA
MOTA	3060	CB	LYS :	A 407	2.317	38.736	43.314	1.00 25.48	AAAA
MOTA	3061	CG		A 407	0.917	39.264	43.423	1.00 26.64	AAAA
	3062								AAAA
MOTA		CD		4 4 0 7	0.015		42.461	1.00 27.09	
ATOM	3063	CE	LYS 2	4 407	-1.273	39.283	42.265	1.00 27.24	AAAA
ATOM	3064	NZ	LYS	A 407	-2.115	38.613	41.264	1.00 27.64	AAAA
ATOM	3065	C		A 407	4.738	38.995	43.640	1.00 25.26	AAAA
ATOM	3066	0		4 407	5.221		42.519	1.00 26.54	AAAA
MOTA	3067	N	GLN .	4 408	5.354	38.355	44.630	1.00 26.03	AAAA
ATOM	3068	CA	GLN :	A 408	6.644	37.735	44.346	1.00 26.43	AAAA
ATOM	3069	СВ		A 408	7.312	37.172	45.603	1.00 22.84	AAAA
								1.00 20.07	AAAA
ATOM	3070	CG	GPW .	A 408	8.598	36.401	45.298	1.00 20.07	<b>ለለለለ</b>

ATOM	3071	CD	GLN	Α	408	9.799	37.285	44.948	1.00 19.10	AAAA
ATOM	3072	OE1				9.683	38.279	44.231	1.00 20.97	AAAA
ATOM	3073	NE2				10.963	36.902	45.439	1.00 13.73	AAAA
ATOM	3074	C	GLN			6.429	36.621	43.321	1.00 28.13	AAAA
								43.510	1.00 27.71	AAAA
ATOM	3075	0	GLN			5.594	35.720			
ATOM	3076	N	HIS			7.180	36.722	42.224	1.00 29.39	AAAA
MOTA	3077	CA	HIS	Α	409	7.116	35.773	41.128	1.00 30.43	AAAA
MOTA	3078	CB	HIS	Α	409	7.417	34.363	41.631	1.00 30.28	AAAA
ATOM	3079	CG	HIS	Α	409	8.778	34.220	42.239	1.00 31.31	AAAA
ATOM	3080	CD2				9.224	33.453	43.260	1.00 31.17	AAAA
ATOM	3081	ND1				9.884	34.876	41.744	1.00 29.96	AAAA
ATOM	3082		HIS			10.952	34.518	42.430	1.00 28.18	AAAA
								43.355	1.00 20.10	AAAA
ATOM	3083	NE2				10.579	33.653			
ATOM	3084	C			409	5.746	35.822	40.471	1.00 31.57	AAAA
ATOM	3085	0	HIS	A	409	5.217	34.806	40.031	1.00 33.44	AAAA
ATOM	3086	И	GLY	A	410	5.177	37.018	40.409	1.00 30.51	AAAA
ATOM	3087	CA	GLY	Α	410	3.879	37.186	39.804	1.00 30.25	AAAA
ATOM	3088	С	GLY	Α	410	2.761	36.378	40.428	1.00 31.22	AAAA
ATOM	3089	Ō			410	1.625	36.483	39.982	1.00 31.64	AAAA
ATOM	3090	N			411	3.042	35.586	41.460	1.00 31.56	AAAA
								42.050	1.00 32.08	AAAA
ATOM	3091	CA			411	1.975	34.798			
MOTA	3092	CB			411	2.167	33.326	41.710	1.00 32.04	AAAA
MOTA	3093	CG	GLN	Α	411	0.915	32.492	41.964	1.00 34.90	AAAA
ATOM	3094	CD	GLN	Α	411	1.158	30.995	41.921	1.00 36.53	AAAA
ATOM	3095	OE1	GLN	Α	411	1.845	30.487	41.027	1.00 38.09	AAAA
MOTA	3096	NE2	GLN	Α	411	0.583	30.275	42.881	1.00 34.86	AAAA
MOTA	3097	С	GLN	Α	411	1.702	34.912	43.553	1.00 34.05	AAAA
ATOM	3098	ō			411	0.563	34.718	43.983	1.00 35.07	AAAA
	3099	N				2.704	35.233	44.367	1.00 34.72	AAAA
ATOM					412					
ATOM	3100	CA			412	2.453	35.284	45.818	1.00 33.37	AAAA
ATOM	3101	CB			412	3.446	34.353	46.530	1.00 34.26	AAAA
MOTA	3102	CG	PHE	A	412	3.572	32.988	45.883	1.00 34.35	AAAA
MOTA	3103	CD1	PHE	Α	412	4.414	32.787	44.803	1.00 33.91	AAAA
MOTA	3104	CD2	PHE	A	412	2.837	31.905	46.351	1.00 35.39	AAAA
ATOM	3105	CE1	PHE	Α	412	4.520	31.527	44.206	1.00 34.61	AAAA
ATOM	3106				412	2.943	30.647	45.757	1.00 33.94	AAAA
ATOM	3107	CZ			412	3.784	30.464	44.689	1.00 33.76	AAAA
ATOM	3108	C			412	2.442	36.669	46.483	1.00 32.19	AAAA
									1.00 32.15	AAAA
ATOM	3109	0			412	3.290	37.522	46.183		
MOTA	3110	N			413	1.469	36.883	47.380	1.00 28.73	AAAA
MOTA	3111	CA			413	1.331	38.156	48.091	1.00 23.99	AAAA
MOTA	3112	CB	SEF	l A	413	-0.097	38.697	47.966	1.00 25.26	AAAA
MOTA	3113	OG	SEF	: A	413	-1.044	37.859	48.592	1.00 27.13	AAAA
ATOM	3114	С	SEF	Ł A	413	1.742	38.068	49.559	1.00 20.44	AAAA
ATOM	3115	0	SEF	R A	413	1.907	39.075	50.220	1.00 18.68	AAAA
ATOM	3116	N			414	1.885	36.850	50.055	1.00 18.60	AAAA
ATOM	3117	CA			414	2.342	36.592	51.412	1.00 18.34	AAAA
	3118				414	1.186	36.402	52.416	1.00 19.49	AAAA
ATOM		CB								
ATOM	3119	CG				1.479		53.788	1.00 19.19	AAAA
ATOM	3120				414	2.153	36.689	54.720	1.00 18.65	AAAA
ATOM	3121	CD2			414	0.201				AAAA
ATOM	3122	С	LEU	JA	414	3.102	35.290		1.00 18.50	AAAA
ATOM	3123	0	LEU	JA	414	2.666	34.379	50.579	1.00 18.63	AAAA
MOTA	3124	N	ALA	A A	415	4.250	35.210	51.915	1.00 17.75	AAAA
ATOM	3125	CA	ALA	A	415	5.053	34.019	51.843	1.00 16.71	AAAA
ATOM	3126	CB			415	5.845	34.012		1.00 14.36	AAAA
ATOM	3127	C			415	5.988	33.968			AAAA
					415	6.851	34.830		1.00 20.04	AAAA
ATOM	3128	0								
ATOM	3129	N			416	5.808	32.972	53.889		AAAA
ATOM	3130	CA			416	6.694	32.823			AAAA
ATOM	3131	CB	VA.	۶.	416	5.936	32.994	56.359		AAAA
MOTA	3132	CG1	. VA	L Æ	416	5.291	34.371	56.400	1.00 18.73	AAAA
MOTA	3133	CG2	. VAI	L Æ	416	4.880	31.939		1.00 19.08	AAAA
ATOM	3134				416	7.297	31.445			AAAA
MOTA	3135				416	6.601	30.450			AAAA
	3136									AAAA
MOTA					417	8.600	31.391			AAAA
MOTA	3137	CA			417	9.276	30.120			
MOTA	3138				417	9.665	29.899			AAAA
MOTA	3139				4 417	8.544	30.363			AAAA
ATOM	3140	CG2	VA:	L A	4 417	10.948	30.626	52.628		AAAA
ATOM	3141	С	VA:	L A	A 417	10.558	30.002	55.240	1.00 14.53	AAAA
ATOM	3142				417	11.142	31.006			AAAA
ATOM	3143				A 418	10.979				AAAA
ATOM	3144				418	12.219	28.402			AAAA
										AAAA
ATOM	3145	CB	25	. /	A 418	13.402	28.733	55.229	1.00 10.04	* 8.10.107

ATOM	3146	OG	SER	A 41	13.441	30.131	54.946	1.00 20.45	AAAA
ATOM	3147	C		A 41		29.011	57.491	1.00 18.26	AAAA
ATOM	3148	0		A 41		29.305	57.803	1.00 19.28	AAAA
								1.00 19.77	AAAA
ATOM	3149	N		A 41		29.194	58.315		
MOTA	3150	CA		A 41.		29.783	59.625	1.00 21.54	AAAA
ATOM	3151	CB	LEU	A 41	10.660	30.868	59.900	1.00 22.58	AAAA
ATOM	3152	CG	LEU	A 41	10.440	31.898	58.783	1.00 22.74	AAAA
ATOM	3153	CD1	LEU	A 41	9.439	32.935	59.219	1.00 22.33	AAAA
ATOM	3154	CD2	LEU	A 41	11.746	32.563	58.440	1.00 24.27	AAAA
ATOM	3155	С		A 41		28.721	60.714	1.00 22.59	AAAA
ATOM	3156	ŏ		A 41		27.543	60.437	1.00 23.35	AAAA
				A 42		29.136	61.958	1.00 24.12	AAAA
ATOM	3157	N					63.077	1.00 24.70	AAAA
ATOM	3158	CA		A 42		28.205			
ATOM	3159	CB		A 42		28.107	63.781	1.00 25.13	AAAA
ATOM	3160	CG	ASN	A 42		27.498	62.898	1.00 28.17	AAAA
ATOM	3161	OD1	ASN	A 42		26.570	62.139	1.00 27.99	AAAA
ATOM	3162	ND2	ASN	A 42	15.442	28.004	62.999	1.00 28.54	AAAA
ATOM	3163	С	ASN	A 42		28.642	64.061	1.00 24.96	AAAA
ATOM	3164	Ō		A 42		28.097	65.142	1.00 26.31	AAAA
ATOM	3165	N		A 42		29.620	63.669	1.00 24.43	AAAA
						30.131	64.519	1.00 23.95	AAAA
MOTA	3166	CA		A 42					
ATOM	3167	CB		A 42		31.260	63.793	1.00 23.29	AAAA
MOTA	3168	CG2	ILE	A 42		32.361	63.393	1.00 21.82	AAAA
MOTA	3169	CG1	ILE	A 42	7.392	30.717	62.545	1.00 22.64	AAAA
ATOM	3170	CD1	ILE	A 42	6.606	31.754	61.794	1.00 22.54	AAAA
ATOM	3171	С	ILE	A 42	7.877	29.056	64.996	1.00 23.53	AAAA
ATOM	3172	Ō		A 42		28.033	64.361	1.00 23.32	AAAA
ATOM	3173	N		A 42		29.313	66.127	1.00 24.49	AAAA
ATOM	3174	CA		A 42		28.397	66.723	1.00 25.40	AAAA
									AAAA
ATOM	3175	CB		A 42		28.557	68.264	1.00 25.26	
MOTA	3176	OG1		A 42		27.577	68.828	1.00 25.84	AAAA
MOTA	3177	CG2	THR	A 42	4.882	28.411	68.864	1.00 26.79	AAAA
ATOM	3178	С	THR	A 42	4.860	28.639	66.169	1.00 26.36	AAAA
ATOM	3179	0	THR	A 42	4.138	27.701	65.830	1.00 26.55	AAAA
ATOM	3180	N	SER	A 42	4.460	29.898	66.092	1.00 25.72	AAAA
MOTA	3181	CA		A 42		30.214	65.549	1.00 25.13	AAAA
ATOM	3182	CB		A 42		30.559	66.666	1.00 24.84	AAAA
				A 42		31.944	66.948	1.00 24.26	AAAA
ATOM	3183	OG						1.00 24.20	AAAA
ATOM	3184	С		A 42		31.406	64.639		
ATOM	3185	0		A 42		31.868	64.507	1.00 22.61	AAAA
ATOM	3186	N		A 42		31.895	64.006	1.00 24.92	AAAA
ATOM	3187	CA	LEU	A 42	2.431	33.040	63.102	1.00 25.28	AAAA
MOTA	3188	CB	LEU	A 42	1.540	32.853	61.861	1.00 20.44	AAAA
MOTA	3189	CG	LEU	A 42	1.973	31.712	60.933	1.00 14.15	AAAA
ATOM	31,90		LEU			31.620	59.755	1.00 11.68	AAAA
ATOM	3191		LEU			31.936	60.492	1.00 8.73	AAAA
		C		A 42		34.363	63.802	1.00 26.98	AAAA
ATOM	3192						63.562	1.00 27.93	AAAA
ATOM	3193	0		A 42		35.363			
ATOM	3194	N		A 42			64.683	1.00 28.38	AAAA
MOTA	3195	CA	GLY	A 42	0.833	35.576	65.416	1.00 29.71	AAAA
ATOM	3196	С.	GLY	A 42	0.512	36.795	64.573	1.00 31.10	AAAA
ATOM	3197	0	GLY	A 42	1.002	37.894	64.831	1.00 32.15	AAAA
ATOM	3198	N	LEU	A 42	-0.304	36.601	63.548	1.00 30.41	AAAA
ATOM	3199	CA	LEU	A 42	-0.716	37.697	62.696	1.00 29.01	AAAA
ATOM	3200	СВ		A 42		37.313	61.217	1.00 27.22	AAAA
ATOM	3201	CG		A 42		36.874	60.783	1.00 27.54	AAAA
							59.310	1.00 26.93	AAAA
ATOM	3202		LEU			36.612			
ATOM	3203		LEU			37.918	61.108	1.00 25.33	AAAA
ATOM	3204	С		A 42		37.880	63.101	1.00 29.26	AAAA
ATOM	3205	0	LEU	A 42	-3.091	37.571	62.345	1.00 30.59	AAAA
ATOM	3206	N	ARG	A 42	7 -2.335	38.368	64.325	1.00 26.97	AAAA
ATOM	3207	CA	ARG	A 42	7 -3.637	38.591	64.927	1.00 27.28	AAAA
ATOM	3208	CB		A 42		38.876	66.418	1.00 27.67	AAAA
ATOM	3209	CG		A 42		40.136	66.719	0.01 27.18	AAAA
		CD		A 42		40.378	68.215	0.01 26.77	AAAA
MOTA	3210								AAAA
ATOM	3211	NE		A 42		41.620	68.515	0.01 26.56	
MOTA	3212	CZ		A 42		42.072	69.744	0.01 26.37	AAAA
MOTA	3213		ARG			41.385	70.796		AAAA
MOTA	3214	NH2	ARG	A 42	7 -0.965	43.214	69.921	0.01 26.46	AAAA
ATOM	3215	С	ARG	A 42	7 -4.473	39.700	64.308	1.00 28.14	, AAAA
ATOM	3216	0		A 42		39.697	64.435	1.00 28.91	AAAA
ATOM	3217	N		A 42		40.653	63.647	1.00 28.65	AAAA
ATOM	3218	CA		A 42		41.754	63.031	1.00 29.14	AAAA
	3219	CB		A 42		43.017	63.018	1.00 28.35	AAAA
MOTA		OG						1.00 28.33	AAAA
ATOM	3220	96	SEK	A 42	3 -3.193	43.322	64.298	1.00 21.12	

ATOM	3221	С	SER	А	428	-4.997	41.443	61.600	1.00 31.11	AAAA
ATOM	3222	0	SER			-6.055	41.885	61.170	1.00 32.26	AAAA
ATOM	3223	N	LEU			-4.167	40.688	60.878	1.00 32.31	AAAA
ATOM ATOM	3224 322 <b>5</b>	CA CB	LEU			-4.403 -3.482	40.307 39.147	59.487 59.131	1.00 32.56 1.00 33.01	AAAA AAAA
ATOM	3226	CG	LEU			-3.423	38.711	57.669	1.00 34.04	AAAA
ATOM	3227		LEU			-3.148	39.910	56.785	1.00 35.70	AAAA
ATOM	3228	CD2	LEU			-2.326	37.677	57.500	1.00 33.40	AAAA
MOTA	3229	C	LEU			-5.843	39.945	59.166	1.00 34.03	АДАА АДАД
ATOM ATOM	3230 3231	O N	LEU LYS			-6.313 -6.535	38.866 40.845	59.506 58.475	1.00 34.39 1.00 35.80	AAAA
ATOM .	3232	CA			430	-7.940	40.635	58.133	1.00 36.74	AAAA
ATOM	3233	CB			430	-8.775	41.767	58.742	1.00 38.45	AAAA
ATOM	3234	CG			430	-10.252	41.766	58.367	1.00 40.34	AAAA
ATOM	3235	CD			430	-10.956	40.509	58.856	0.01 39.48 0.01 39.55	AAAA AAAA
ATOM ATOM	3236 3237	CE NZ			430 430	-10.941 -11.620	40.417 41.581	60.373 61.003	0.01 39.33	AAAA
ATOM	3238	C			430	-8.255	40.512	56.638	1.00 36.91	AAAA
ATOM	3239	0			430	-9.345	40.065	56.279	1.00 36.85	AAAA
ATOM	3240	N			431	-7.317	40.892	55.769	1.00 37.07	AAAA
ATOM	3241	CA			431	-7.554	40.802	54.323	1.00 36.97 1.00 41.60	AAAA AAAA
ATOM ATOM	3242 3243	CB CG			431 431	-8.325 -8.338	42.036 42.180	53.825 52.287	1.00 41.80	AAAA
ATOM	3243	CD			431	-8.997	43.466	51.799	1.00 48.14	AAAA
ATOM	3245		GLU			-8.576	44.557	52.235	1.00 48.87	AAAA
MOTA	3246		GLU			-9.932	43.384	50.971	1.00 49.84	AAAA
ATOM	3247	C			431	-6.357	40.617	53.406 53.534	1.00 33.55 1.00 33.05	AAAA AAAA
ATOM ATOM	3248 3249	И			431 432	-5.345 -6.514	41.292 39.714	52.449	1.00 31.23	AAAA
ATOM	3250	CA			432	-5.482	39.447	51.460	1.00 30.79	AAAA
ATOM	3251	СВ			432	-4.898	38.020	51.622	1.00 29.85	AAAA
MOTA	3252		ILE			-3.723	37.819	50.655	1.00 27.79	AAAA
ATOM	3253	CG1			432	-4.390	37.843	53.057 53.343	1.00 29.53 1.00 28.85	AAAA AAAA
ATOM ATOM	3254 3255	CDI			432 432	-3.771 -6.090	36.505 39.647	50.062	1.00 20.85	AAAA
ATOM	3256	Ö			432	-6.424	38.696	49.354	1.00 29.48	AAAA
ATOM	3257	N			433	-6.224	40.924	49.705	1.00 28.54	AAAA
MOTA	3258	CA			433	-6.788	41.401	48.446	1.00 26.94	AAAA
MOTA	3259	CB			433	-6.196 -6.654	42.772 43.795	48.086 48.935	1.00 24.30 1.00 21.76	AAAA AAAA
ATOM ATOM	3260 3261	OG C			433	-6.634	40.498	47.238	1.00 27.53	AAAA
ATOM	3262	Ö			433	-7.619	40.086	46.627	1.00 28.23	AAAA
MOTA	3263	N	ASE	Ą	434	-5.391	40.218	46.881	1.00 27.44	AAAA
MOTA	3264	CA			434	-5.099	39.410	45.713	1.00 28.56	AAAA AAAA
ATOM ATOM	3265 3266	CB CG			434	-4.855 -4.550	40.334	44.524 43.245	1.00 28.00 1.00 29.39	AAAA
ATOM	3267				434	-3.986	40.213	42.320	1.00 31.03	AAAA
ATOM	3268				434	-4.876	38.394	43.151	1.00 28.96	AAAA
ATOM	3269	С			434	-3.856	38.602	46.005	1.00 29.95	AAAA
ATOM	3270	0			434	-3.291	38.702	47.094	1.00 31.36 1.00 30.06	AAAA AAAA
ATOM ATOM	3271 3272	N CA			435	-3.434 -2.240	37.797 36.993	45.040 45.221	1.00 30.00	AAAA
ATOM	3273	C.			435	-2.398	35.722	46.032	1.00 32.28	AAAA
ATOM	3274	0	GLY	<i>( )</i>	435	-3.365	35.544	46.766	1.00 32.40	AAAA
ATOM	3275	N			436	-1.427	34.833	45.900	1.00 33.12	AAAA
ATOM	3276	CA			436	-1.466 -0.908	33.579	46.623 45.750	1.00 35.15 1.00 36.04	AAAA AAAA
ATOM ATOM	3277 3278	CB CG			4 436 4 436	-1.909	32.463 32.000	44.712	1.00 30.04	AAAA
ATOM	3279				436	-2.845	32.774	44.401	1.00 36.60	AAAA
ATOM	3280				436	-1.756	30.873	44.206	1.00 37.05	AAAA
MOTA	3281	С			436	-0.734	33.664	47.947	1.00 35.28	AAAA
ATOM	3282				436	-0.068	34.663 32.616		1.00 36.09 1.00 33.59	AAAA AAAA
ATOM ATOM	3283 3284	N CA			4 437 4 437	-0.868 -0.260	32.586		1.00 33.40	AAAA
ATOM	3285				437	-1.322	32.861		1.00 32.21	AAAA
ATOM	3286	CG:	l VA	L	A 437	-0.765	32.524	52.533	1.00 30.82	AAAA
MOTA	3287				A 437	-1.766	34.315		1.00 30.45	AAAA AAAA
MOTA	3288				A 437 A 437	0.404 -0.275	31.266 30.320			AAAA AAAA
ATOM ATOM	3289 3290				4 437 4 438	1.724	31.194			AAAA
MOTA	3291				A 438	2.411	29.949			AAAA
ATOM	3292	CB	IL	E i	A 438	3.493	29.628			AAAA
ATOM	3293				A 438	4.432	30.821			AAAA AAAA
MOTA	3294				A 438	4.235	28.353 27.996			AAAA AAAA
MOTA	3295	CD.	7 TT	. ت	A 438	5.406	21.996	42.142	1.00 23.43	

ATOM	3296	С	ILE	Α	438	3.082	29.936	51.967	1.00 32.55	AAAA
ATOM	3297	0	ILE			3.809	30.862	52.323	1.00 32.95	AAAA
ATOM	3298	N	ILE			2.847	28.878	52.735	1.00 32.51	AAAA
										AAAA
ATOM	3299	CA	ILE			3.477	28.761	54.041	1.00 32.75	
ATOM	3300	CB	ILE			2.479	28.970	55.156	1.00 30.28	AAAA
ATOM	3301	CG2	ILE	Α	439	3.214	29.094	56.465	1.00 27.97	AAAA
ATOM	3302	CG1	ILE	Α	439	1.668	30.228	54.868	1.00 28.25	AAAA
MOTA	3303	CD1	ILE	Α	439	0.709	30.591	55.932	1.00 29.49	AAAA
ATOM	3304	C	ILE			4.081	27.375	54.144	1.00 35.57	AAAA
						3.455	26.446	54.645	1.00 37.22	AAAA
ATOM	3305	0	ILE							AAAA
ATOM	3306	N			440	5.314	27.248	53.662	1.00 37.77	
ATOM	3307	CA	SER	Α	440	6.021	25.974	53.645	1.00 38.51	AAAA
ATOM	3308	CB	SER	Α	440	6.084	25.470	52.199	1.00 39.61	AAAA
ATOM	3309	OG	SER	Α	440	7.011	24.410	52.060	1.00 42.38	AAAA
ATOM	3310	С	SER	Α	440	7.434	26.008	54.225	1.00 37.90	AAAA
ATOM	3311	0			440	8.029	27.077	54.381	1.00 37.99	AAAA
						7.953	24.819	54.542	1.00 37.13	AAAA
ATOM	3312	N			441					
ATOM	3313	CA	GLY			9.310	24.676	55.057	1.00 36.43	AAAA
ATOM	3314	С	GLY	Α	441	9.620	25.180	56.451	1.00 34.98	AAAA
ATOM	3315	0	GLY	Α	441	10.775	25.400	56.806	1.00 34.49	AAAA
ATOM	3316	N	ASN	Α	442	8.591	25.361	57.258	1.00 34.88	AAAA
ATOM	3317	CA			442	8.798	25.853	58.600	1.00 35.54	AAAA
ATOM	3318	CB			442	7.695	26.855	58.960	1.00 35.53	AAAA
					442			57.941	1.00 35.95	AAAA
ATOM	3319	CG				7.578	27.984			
ATOM	3320		ASN			8.536	28.720	57.690	1.00 34.75	AAAA
ATOM	3321	ND2	ASN			6.401	28.119	57.345	1.00 36.05	AAAA
ATOM	3322	C	ASN	Α	442	8.824	24.667	59.555	1.00 36.67	AAAA
ATOM	3323	0	ASN	Α	442	7.791	24.182	60.023	1.00 36.72	AAAA
ATOM	3324	N	LYS	Α	443	10.041	24.197	59.800	1.00 37.21	AAAA
ATOM	3325	CA			443	10.340	23.073	60.677	1.00 36.36	AAAA
ATOM	3326	CB			443	11.756	23.267	61.212	1.00 38.46	AAAA
								62.378	1.00 39.32	AAAA
ATOM	3327	CG			443	12.193	22.401			
ATOM	3328	CD			443	13.223	23.171	63.226	1.00 40.78	AAAA
MOTA	3329	CE	LYS	Α	443	14.347	23.779	62.366	1.00 41.65	AAAA
ATOM	3330	ΝZ	LYS	Α	443	15.325	24.643	63.113	1.00 42.99	AAAA
MOTA	3331	С	LYS	Α	443	9.365	22.850	61.833	1.00 35.56	AAAA
ATOM	3332	0			443	8.922	21.728	62.051	1.00 35.95	AAAA
ATOM	3333	N			444	9.015	23.907	62.561	1.00 34.71	AAAA
							23.764	63.710	1.00 33.50	AAAA
ATOM	3334	CA			444	8.114				
ATOM	3335	CB			444	8.822	24.288	64.950	1.00 32.55	AAAA
ATOM	3336	CG			444	10.259	23.864	65.003	1.00 34.08	AAAA
MOTA	3337	OD1	ASN	Α	444	10.559	22.675	64.950	1.00 35.70	AAAA
ATOM	3338	ND2	ASN	Α	444	11 <sup>.</sup> .166	24.832	65.104	1.00 33.88	AAAA
ATOM	3339	С	ASN	Α	444	6.731	24.423	63.616	1.00 32.72	AAAA
MOTA	3340	Ō			444	5.808	24.035	64.317	1.00 32.89	AAAA
ATOM	3341	N			445	6.597	25.424	62.762	1.00 31.43	AAAA
		CA			445	5.348	26.144	62.598	1.00 30.97	AAAA
MOTA	3342									AAAA
ATOM	3343	CB			445	5.424	26.956	61.318	1.00 31.15	
MOTA	3344	CG			445	4.141				AAAA
ATOM	3345	CD1	LEU	А	445	3.770	28.729	61.897	1.00 31.45	AAAA
ATOM	3346	CD2	LEU	Α	445	4.357	28.227	59.536	1.00 31.29	AAAA
ATOM	3347	С	LEU	Α	445	4.059	25.325	62.581	1.00 32.39	<b>AAAA</b>
ATOM	3348	0			445	3.887	24.429	61.757	1.00 32.40	AAAA
ATOM	3349	N			446	3.143	25.662	63.481	1.00 33.27	AAAA
ATOM	3350	CA			446	1.854	25.000	63.559	1.00 35.69	AAAA
					446	0.742	26.041	63.620	1.00 36.63	AAAA
ATOM	3351	C								
MOTA	3352	0			446	0.998	27.234	63.417	1.00 38.60	AAAA
ATOM	3353	CB			446	1.792	24.089	64.779	1.00 39.70	AAAA
ATOM	3354	SG	CYS	Α	446	2.643	22.489	64.527	1.00 47.79	AAAA
ATOM	3355	N	TYR	Α	447	-0.484	25.602	63.904	1.00 35.15	AAAA
ATOM	3356	CA	TYR	Α	447	-1.650	26.495	63.975	1.00 33.56	AAAA
ATOM	3357	CB			447	-1.422	27.689	64.922	1.00 30.69	AAAA
ATOM	3358	CG			447	-0.796	27.382	66.254	1.00 26.92	AAAA
					447	0.571	27.481	66.420	1.00 29.14	· AAAA
ATOM	3359								1.00 30.13	AAAA
ATOM	3360				447	1.174	27.188	67.631		
ATOM	3361				447	-1.563	26.981	67.344	1.00 26.04	AAAA
ATOM	3362	CE2	TYR	A	447	-0.971	26.683	68.569	1.00 27.24	AAAA
ATOM	3363	CZ	TYR	A	447	0.408	26.789	68.699	1.00 28.35	AAAA
MOTA	3364	ОН			447	1.059	26.497	69.869	1.00 27.10	AAAA
ATOM	3365	С			447	-1.940	27.054	62.589	1.00 34.49	AAAA
ATOM	3366	o			447	-3.099	27.243	62.211	1.00 35.61	AAAA
ATOM	3367	N			448	-0.859		61.852	1.00 35.23	AAAA
									1.00 35.50	AAAA
ATOM	3368	CA			448	-0.856	27.862	60.492		AAAA
ATOM	3369	CB			448	0.575		59.968	1.00 34.22	
ATOM	3370	С	ALA	. A	448	-1.739	27.154	59.477	1.00 35.73	AAAA

MOTA	3371	0	ALA	Α	448	-1.638	27.422	58.292	1.00 36.29	AAAA
ATOM	3372		ASN			-2.606	26.261	59.924	1.00 36.86	AAAA
MOTA	3373		ASN			-3.450	25.528	59.000	1.00 37.86	AAAA
ATOM	3374	CB	ASN	Α	449	-2.951	24.092	58.890	1.00 37.97	AAAA
ATOM	3375	CG	ASN	Α	449	-3.117	23.523	57.502	1.00 37.39	AAAA
ATOM	3376	OD1	ASN	А	449	-2.659	24.107	56.521	1.00 38.36	AAAA
ATOM	3377	ND2				-3.762	22.372	57.412	1.00 37.99	AAAA
MOTA	3378	С	ASN	А	449	-4.857	25.534	59.532	1.00 38.97	AAAA
ATOM	3379	0	ASN	Α	449	-5.809	25.156	58.854	1.00 39.70	AAAA
ATOM	3380	N	THR	A	450	-4.980	25.959	60.773	1.00 39.32	AAAA
									1.00 40.61	AAAA
ATOM	3381	CA	THR			-6.270	26.017	61.415		
ATOM	3382	CB	THR	А	450	-6.088	26.451	62.861	1.00 40.14	AAAA
ATOM	3383	OG1	THR	Α	450	-5.651	27.811	62.884	1.00 41.30	AAAA
ATOM	3384	CG2	THR	Α	450	-5.017	25.612	63.534	1.00 39.48	AAAA
									1.00 41.64	
ATOM	3385	С			450	-7.111	27.055	60.670		AAAA
ATOM	3386	0	THR	Α	450	-8.290	26.834	60.360	1.00 41.96	AAAA
ATOM	3387	N	ILE	Α	451	-6.452	28.174	60.373	1.00 42.24	AAAA
ATOM	3388	CA	TIF	Ά	451	-7.015	29.342	59.693	1.00 41.34	AAAA
	3389	СВ			451	-5.905		59.376	1.00 42.69	AAAA
ATOM							30.356			
ATOM	3390	CG2	ILE	Α	451	-6.446	31.780	59.523	1.00 42.92	AAAA
ATOM	3391	CG1	ILE	Α	451	-4.719	30.113	60.320	1.00 43.92	AAAA
ATOM	3392	CD1	ILE	Α	451	-3.500	30.940	60.048	1.00 44.34	AAAA
		C			451	-7.742		58.399	1.00 39.85	AAAA
ATOM	3393						29.058			
MOTA	3394	0	ILE	Α	451	-7.274	28.30 <b>1</b>	57.569	1.00 39.89	AAA
ATOM	3395	N	ASN	Α	452	-8.888	29.693	58.217	1.00 39.42	AAAA
ATOM	3396	CA			452	-9.664	29.505	56.997	1.00 38.45	AAAA
	3397							57.328	1.00 40.23	AAAA
ATOM		CB			452	-11.152	29.543			
ATOM	3398	CG	ASN	A	452	-12.015	29.376	56.113	1.00 43.01	AAAA
MOTA	3399	OD1	ASN	Α	452	-11.518	29.101	55.016	1.00 45.00	AAAA
MOTA	3400	ND2	ASN	Α	452	-13.321	29.530	56.293	1.00 44.27	AAAA
ATOM	3401	C			452	-9.320	30.611	56.007	1.00 36.31	AAAA
ATOM	3402	0	ASN	Α	452	-10.105	31.539	55.834	1.00 35.81	AAAA
MOTA	3403	N	TRP	Α	453	-8.161	30.484	55.352	1.00 34.09	AAAA
ATOM	3404	CA	TRP	Α	453	-7.635	31.475	54.402	1.00 32.35	AAAA
ATOM	3405	CB			453	-6.336	30.967	53.775	1.00 32.16	AAAA
ATOM	3406	CG			453	-5.264	30.590	54.742	1.00 31.21	AAAA
MOTA	3407	CD2	TRP	Α	453	-4.229	31.437	55.248	1.00 30.49	AAAA
ATOM	3408	CE2	TRP	Α	453	-3.427	30.651	56.103	1.00 31.08	AAAA
ATOM	3409				453	-3.898	32.781	55.061	1.00 29.15	AAAA
										AAAA
ATOM	3410				453	-5.059	29.364	55.297	1.00 31.53	
ATOM	3411				453	-3.955	29.389	56.115	1.00 30.37	AAAA
ATOM	3412	CZ2	TRP	Α	453	-2.313	31.168	56.769	1.00 30.66	AAAA
ATOM	3413	CZ3	TRP	Α	453	-2.789	33.294	55.723	1.00 30.08	AAAA
ATOM	3414				453	-2.011	32.488	56.566	1.00 29.76	AAAA
ATOM	3415	С			453	 -8.530	32.006	53.276	1.00 32.12	AAAA
MOTA	3416	0	TRP	Α	453	-8.474	33.194	52.960	1.00 29.24	AAAA
ATOM	3417	N	LYS	A	454	-9.333	31.138	52.662	1.00 33.49	AAAA
MOTA	3418	CA	LYS	Ά	454	-10.225	31.556	51.575	1.00 35.03	AAAA
ATOM	3419	CB			454	-10.877	30.340	50.911		AAAA
ATOM	3420	CG			454	-9.890	29.351	50.314	0.01 34.47	AAAA
MOTA	3421	CD	LYS	Α	454	-10.608	28.159	49.703	0.01 34.29	AAAA
MOTA	3422	CE	LYS	Α	454	-9.625	27.165	49.109	0.01 34.18	AAAA
ATOM	3423	NZ			454	-10.317	25.991	48.510	0.01 34.49	AAAA
ATOM	3424	C			454	-11.307	32.469	52.126	1.00 36.28	AAAA
ATOM	3425	0			454	-12.452	32.462	51.663	1.00 37.67	AAAA
ATOM	3426	N	LYS	Α	455	-10.928	33.253	53.125	1.00 35.91	AAAA
ATOM	3427	CA			455	-11.837	34.176	53.780	1.00 36.33	AAAA
ATOM	3428	CB			455	-12.326	33.579	55.105	1.00 36.66	AAAA
MOTA	3429	CG			455	-13.176	32.327	54.959	0.01 36.25	AAAA
ATOM	3430	CD	LYS	A	455	-14.523	32.634	54.324	0.01 36.05	AAAA
ATOM	3431	CE	LYS	A	455	-15.326	33.612	55.169	0.01 35.84	AAAA
ATOM	3432	NZ			455	-15.561	33.097	56.547	0.01 35.72	AAAA
ATOM	3433	C			455	-11.114	35.495	54.033	1.00 35.93	
ATOM	3434	0	LYS	<i>[</i>	455	-11.647	36.405	54.667	1.00 37.27	AAAA
ATOM	3435	N	LEU	P	456	-9.890	35.582	53.538	1.00 33.47	AAAA
ATOM	3436	CA			456	-9.095	36.784	53.678	1.00 32.31	AAAA
ATOM	3437	CB			456	-7.699	36.443	54.208	1.00 31.51	AAAA
MOTA	3438	CG			456	-7.466	35.741	55.546	1.00 28.94	AAAA
MOTA	3439	CD1	LEU	J P	456	-6.089	35.146	55.559	1.00 27.55	AAAA
MOTA	3440	CD2	LEU	j P	456	-7.605	36.717	56.676	1.00 29.29	AAAA
ATOM	3441	C			456	-8.958	37.287	52.254	1.00 33.32	
MOTA	3442	0			456	-8.446	38.382			
ATOM	3443	N	PHE	E P	457	-9.422	36.462	51.316		
ATOM	3444	CA	PHE	E P	457	-9.309	36.760	49.893	1.00 31.56	AAAA
ATOM	3445	СВ			457	-9.288				
		-2				2.200				1

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ATOM	3446	CG	PHE	А	457	-8.169	34.516	49.463	1.00 29.22	AAAA
ATOM	3447		PHE			-6.913	34.998	49.803	1.00 30.34	AAAA
ATOM	3448		PHE			-8.365	33.142	49.443	1.00 29.39	AAAA
ATOM	3449	CE1	PHE			-5.868	34.124	50.118	1.00 29.65	AAAA
			PHE			-7.335	32.264	49.753	1.00 29.22	AAAA
ATOM	3450									AAAA
ATOM	3451	CZ	PHE			-6.082	32.757	50.092	1.00 30.03	
ATOM	3452	С	PHE			-10.378	37.687	49.328	1.00 31.52	AAAA
ATOM	3453	0	PHE	Α	457	-11.374	37.979	49.991	1.00 30.79	AAAA
ATOM	3454	N	GLY	Α	458	-10.147	38.140	48.093	1.00 31.16	AAAA
MOTA	3455	CA	GLY	Α	458	-11.065	39.033	47.398	1.00 30.79	AAAA
MOTA	3456	С	GLY	Α	458	-11.057	38.781	45.899	1.00 30.26	AAAA
ATOM	3457	0	GLY			-12.066	38.916	45.211	1.00 31.05	AAAA
ATOM	3458	N	THR			-9.898	38.407	45.387	1.00 29.66	AAAA
ATOM	3459	CA	THR			-9.744	38.116	43.977	1.00 29.42	AAAA
		CB	THR					43.567	1.00 28.95	AAAA
ATOM	3460					-8.263	38.248		1.00 26.46	AAAA
ATOM	3461		THR			-7.856	39.614	43.703		
ATOM	3462		THR			-8.048	37.795	42.130	1.00 29.67	AAAA
ATOM	3463	С	THR			-10.246	36.697	43.694	1.00 30.00	AAAA
MOTA	3464	0	THR	A	459	-10.563	35.946	44.616	1.00 30.23	AAAA
ATOM	3465	N	SER	Α	460	-10.339	36.347	42.418	1.00 30.26	AAAA
ATOM	3466	CA	SER	Α	460	-10.794	35.030	42.012	1.00 31.41	AAAA
ATOM	3467	CB	SER	Α	460	-11.775	35.148	40.832	1.00 32.22	AAAA
ATOM	3468	OG			460	-12.262	33.882	40.402	1.00 32.60	AAAA
ATOM	3469	c			460	-9.544	34.269	41.604	1.00 32.05	AAAA
						-8.670	34.810	40.931	1.00 32.57	AAAA
MOTA	3470	0			460					
ATOM	3471	N	GLY			-9.449	33.019	42.027	1.00 32.21	AAAA
ATOM	3472	CA			461	-8.278	32.233	41.693	1.00 34.05	AAAA
MOTA	3473	С	GLY			-7.304	32.197	42.859	1.00 34.53	AAAA
ATOM	3474	0	GLY	Α	461	-6.402	31.351	42.924	1.00 33.47	AAAA
MOTA	3475	N	GLN	Α	462	-7.477	33.127	43.790	1.00 34.78	AAAA
ATOM	3476	CA	GLN	Α	462	-6.598	33.154	44.935	1.00 35.20	AAAA
ATOM	3477	CB			462	-7.076	34.183	45.970	1.00 34.08	AAAA
ATOM	3478	CG			462	-6.721	35.628	45.586	1.00 32.71	AAAA
ATOM	3479	CD			462	-6.696	36.584	46.763	1.00 31.87	AAAA
	3480		GLN			-7.724	37.088	47.186	1.00 31.81	AAAA
ATOM										AAAA
MOTA	3481		GLN			-5.512	36.826	47.302	1.00 31.66	
ATOM	3482	C			462	-6.596	31.748	45.499	1.00 36.30	AAAA
ATOM	3483	0			462	-7.624	31.083	45.536	1.00 35.91	AAAA
ATOM	3484	И			463	-5.423	31.268	45.887	1.00 38.07	AAAA
ATOM	3485	CA	LYS	A	463	-5.332	29.928	46.438	1.00 38.50	AAAA
ATOM	3486	CB	LYS	Α	463	-5.164	28.884	45.326	1.00 37.44	AAA
ATOM	3487	CG	LYS	Α	463	-3.857	28.940	44.590	1.00 39.00	AAAA
MOTA	3488	CD	LYS	Α	463	-3.862	28.011	43.392	1.00 40.11	AAAA
ATOM	3489	CE			463	-2.595	28.196	42.567	1.00 41.03	AAAA
ATOM	3490	NZ			463	-2.655	27.524	41.240	1.00 42.11	AAAA
ATOM	3491	C			463	-4.201	29.829	47.444	1.00 38.32	AAAA
ATOM	3492	Ö			463	-3.225	30.580	47.399	1.00 37.95	AAAA
		N			464	-4.365	28.883	48.355	1.00 37.81	AAAA
MOTA	3493	-						49.427		AAAA
ATOM	3494	CA			464	-3.430	28.645		1.00 36.34	
ATOM	3495	CB			464	-4.241	28.371	50.709	1.00 35.59	AAAA
MOTA	3496	OG1	THR	Α	464	~4.096	29.484	51.601	1.00 34.42	AAAA
MOTA	3497	CG2	THR	Α	464	-3.831	27.058	51.364	1.00 33.90	AAAA
MOTA	3498	С	THR	Α	464	-2.470	27.501	49.108	1.00 36.24	AAAA
MOTA	3499	0	THR	Α	464	-2.794	26.627	48.317	1.00 36.37	AAAA
ATOM	3500	N	LYS	Α	465	-1.285	27.520	49.712	1.00 36.25	AAAA
ATOM	3501	CA			465	-0.307	26.465	49.478	1.00 37.12	AAAA
ATOM	3502	СВ			465	0.672	26.886	48.386	1.00 36.43	AAAA
ATOM	3503	CG			465	0.030	27.162	47.032	0.01 36.25	AAAA
	3504				465	-0.620	25.915	46.447	0.01 35.95	AAAA
ATOM		CD							0.01 35.83	AAAA
ATOM	3505	CE			465	0.401	24.816	46.190		
MOTA	3506	NZ			465	-0.233	23.593	45.624	0.01 35.53	AAAA
MOTA	3507	C			465	0.486	26.030	50.711	1.00 37.50	AAAA
ATOM	3508	O			465	1.682	25.790	50.608	1.00 38.30	AAAA
ATOM	3509	N	ILE	A	466	-0.181	25.917	51.859	1.00 37.70	AAAA
ATOM	3510	CA	ILE	Α	466	0.451	25.497	53.118	1.00 37.92	AAAA
ATOM	3511	CB			466	-0.529	25.656	54.323	1.00 36.78	AAAA
ATOM	3512		ILE			0.058	25.033	55.564	1.00 36.50	AAAA
ATOM	3513		ILE			-0.813	27.125	54.599	1.00 37.03	AAAA
ATOM	3514		ILE			-1.622	27.798	53.541	1.00 38.09	AAAA
										AAAA
MOTA	3515	C			466	0.912	24.029	53.086	1.00 38.09	
MOTA	3516	0			466	0.105	23.121	52.951	1.00 38.82	AAAA
MOTA	3517	N			467	2.207	23.795	53.239	1.00 38.47	AAAA
MOTA	3518	CA			467	2.723	22.432	53.217	1.00 39.02	AAAA
MOTA	3519	CB	ILE	A	467	2.720	21.858	51.773	1.00 38.79	AAAA
MOTA	3520	CG2	ILE	Α	467.	3.664	22.673	50.888	1.00 36.81	AAAA

ATOM	3521	CG1	ILE F	467	3.170	20.393	51.777	1.00 38.02	AAAA
ATOM	3522		ILE F		2.265	19.473	52.566	0.01 38.24	AAAA
ATOM ATOM	3523 3524	С 0	ILE F		4.149 4.855	22.359 23.361	53.758 53.833	1.00 39.47 1.00 38.89	АААА АААА
ATOM	3525	N	SER A		4.554	21.156	54.140	1.00 39.91	AAAA
ATOM	3526	CA	SER F		5.885	20.897	54.659	1.00 40.96	AAAA
MOTA	3527	СВ	SER A		6.910	21.099	53.540	1.00 42.91	AAAA
MOTA	3528	OG	SER F	468	8.169	20.550	53.891	1.00 45.03	AAAA
ATOM	3529	С	SER A		6.288	21.711	55.892	1.00 40.32	AAAA
ATOM	3530	0	SER A		7.409	22.198	55.974	1.00 40.41	AAAA
MOTA	3531	N C7	ASN A		5.381 5.708	21.860	56.850	1.00 39.89	AAAA AAAA
ATOM ATOM	3532 3533	CA CB	ASN A		4.645	22.587 23.649	58.069 58.346	1.00 40.07	AAAA
ATOM	3534	CG	ASN A		4.538	24.677	57.209	1.00 41.77	AAAA
ATOM	3535		ASN A		5.514	25.345	56.862	1.00 41.82	AAAA
ATOM	3536	ND2	ASN A	A 469	3.350	24.799	56.627	1.00 41.27	AAAA
ATOM	3537	С		A 469	5.813	21.550	59.197	1.00 42.02	AAAA
ATOM	3538	0		A 469	6.397	20.484	58.988	1.00 43.25	AAAA
ATOM	3539 3540	N CA		A 470 A 470	5.281 5.407	21.811 20.785	60.387 61.418	1.00 42.14	AAAA AAAA
ATOM ATOM	3541	CB		A 470	5.355	21.379	62.824	1.00 39.77	AAAA
ATOM	3542	CG		A 470	5.799	20.392	63.913	1.00 39.14	AAAA
ATOM	3543	CD		A 470	5.368	20.892	65.261	1.00 40.19	AAAA
ATOM	3544	NE	ARG 2	A 470	5.909	20.135	66.377	1.00 40.49	AAAA
ATOM	3545	CZ		A 470	7.153	20.255	66.817	1.00 42.52	AAAA
ATOM	3546		ARG 2		7.986	21.103	66.226	1.00 41.38	AAAA
ATOM	3547 3548		ARG I	A 470 A 470	7.558 4.311	19.541 19.744	67.864 61.271	1.00 43.86 1.00 40.14	AAAA AAAA
MOTA MOTA	3549	C 0		A 470	3.179	20.063	60.895	1.00 38.57	AAAA
ATOM	3550	N		A 471	4.659	18.499	61.578	1.00 40.23	AAAA
MOTA	3551	CA		A 471	3.709	17.410	61.468	1.00 41.41	AAAA
ATOM	3552	C		A 471	2.387	17.692	62.143	1.00 42.39	AAAA
ATOM	3553	0		A 471	2.361	18.105	63.302	1.00 43.59	AAAA
ATOM	3554	N		A 472	1.290 -0.039	17.467 17.705	61.423 61.967	1.00 42.47	АААА АААА
ATOM ATOM	3555 3556	CA CB		A 472 A 472	-1.114	17.703	60.934	1.00 42.45	AAAA
ATOM	3557	CG		A 472	-2.542	17.580	61.433	1.00 49.05	AAAA
ATOM	3558	CD		A 472	-3.559	17.658	60.305	1.00 51.94	AAAA
MOTA	3559		GLU		-3.690	16.669	59.553	1.00 53.46	AAAA
ATOM	3560		GLU		-4.226	18.710	60.165	1.00 53.20	AAAA
ATOM ATOM	3561 3562	C 0		A 472 A 472	-0.260 -0.864	16.893 17.371	63.229 64.190	1.00 41.34 1.00 40.54	AAAA AAAA
ATOM	3563	N		A 473		15.665	63.229	1.00 40.34	AAAA
ATOM	3564	CA		A 473		14.798	64.384	1.00 40.52	AAAA
ATOM	3565	CB	ASN	A 473	0.245	13.333	63.972	1.00 39.35	AAAA
ATOM	3566	CG		A 473		12.821	63.206	1.00 38.36	AAAA
ATOM	3567		ASN			13.194	63.496	1.00 40.17	AAAA AAAA
ATOM	3568 3569	_	ASN			11.960 15.138	62.237 65.513	1.00 36.04 1.00 40.48	AAAA
MOTA MOTA	3570	0		A 473 A 473		14.884	66.675	1.00 40.39	AAAA
ATOM	3571	N		A 474		15.731	65.174	1.00 41.21	AAAA
MOTA	3572	CA	SER	A 474	3.172	16.114	66.179	1.00 41.74	AAAA
MOTA	3573	CB		A 474		16.517	65.520	1.00 42.75	AAAA
ATOM	3574	OG		A 474		16.877	66.493	1.00 42.97 1.00 41.83	AAAA AAAA
ATOM ATOM	3575 3576	0		A 474		17.267 17.337	67.056 68.230	1.00 41.83	AAAA
ATOM	3577	N		A 475			66.490	1.00 42.28	AAAA
ATOM	3578	CA		A 475		19.316	67.272	1.00 43.71	AAAA
ATOM	3579	C	CYS	A 475		19.002	68.154	1.00 43.43	AAAA
MOTA	3580	0		A 475			69.149	1.00 42.98	AAAA
ATOM	3581	CB		A 475			66.376	1.00 45.39 1.00 48.66	AAAA AAAA
ATOM ATOM	3582 3583	SG N		A 475			66.358 67.799	1.00 44.54	AAAA
ATOM	3584	CA		A 47			68.611	1.00 44.92	AAAA
ATOM	3585	CB		A 47				1.00 46.30	AAAA
ATOM	3586	CG		A 47			66.695	1.00 49.77	AAAA
MOTA	3587	CD		A 47			66.105	1.00 50.88	AAAA
ATOM	3588	CE		A 47			67.136	1.00 52.46	AAAA
ATOM	3589	NZ		A 47				1.00 52.22 1.00 43.70	АААА АААА
ATOM ATOM	3590 3591	0		A 47			69.785 70.913	1.00 43.70	AAAA
ATOM	3592	N		A 47					AAAA
ATOM	3593	CA		A 47					AAAA
ATOM	3594	CB		A 47					AAAA
ATOM	3595	С	ALA	A 47	1.429	16.156	71.508	1.00 46.04	AAAA

ATOM	3596	0	ALA	А	477	1.997	15.708	72.510	1.00 46.47	AAAA
ATOM	3597	N	THR			1.413	17.452	71.201	1.00 45.95	AAAA
MOTA	3598	CA	THR	Α	478	2.079	18.455	72.022	1.00 45.97	AAAA
MOTA	3599	CB	THR	Α	478	3.194	19.139	71.235	1.00 47.35	AAAA
MOTA	3600	OG1	$\mathtt{THR}$	Α	478	2.667	19.624	69.994	1.00 48.29	AAAA
MOTA	3601	CG2	THR	A	478	4.331	18.158	70.958	1.00 48.15	AAAA
MOTA	3602	С	THR	Α	478	1.096	19.516	72.504	1.00 45.78	AAAA
MOTA	3603	0	THR	Α	478	1.472	20.456	73.206	1.00 45.48	AAAA
MOTA	3604	N	GLY			-0.165	19.361	72.114	1.00 45.51	AAAA
MOTA	3605	CA	GLY			-1.198	20.293	72.529	1.00 45.02	AAAA
MOTA	3606	C			479	-1.161	21.628	71.821	1.00 44.38	AAAA
ATOM	3607	0			479	-1.964	22.517	72.093	1.00 44.00	AAAA AAAA
ATOM	3608	И			480	-0.216	21.789	70.914 70.194	1.00 44.26 1.00 44.70	AAAA
ATOM	3609	CA	GLN		480	-0.141 1.174	23.033	69.453	1.00 43.41	AAAA
ATOM ATOM	3610 3611	CB CG			480	2.238	23.726	70.313	1.00 45.41	AAAA
ATOM	3612	CD			480	3.593	23.181	69.997	1.00 46.61	AAAA
ATOM	3613		GLN			3.837	21.989	70.165	1.00 47.52	AAAA
ATOM	3614		GLN			4.493	24.045	69.536	1.00 46.03	AAAA
ATOM	3615	C			480	-1.307	23.130	69.242	1.00 45.62	AAAA
ATOM	3616	ō			480	-1.143	23.029	68.034	1.00 47.24	AAAA
ATOM	3617	N			481	-2.495	23.297	69.806	1.00 45.94	AAAA
MOTA	3618	CA	VAL	Α	481	-3.717	23.438	69.031	1.00 46.55	AAAA
MOTA	3619	CB	VAL	Α	481	-4.674	22.262	69.254	1.00 47.01	AAAA
ATOM	3620	CG1	VAL	A	481	-4.101	21.009	68.630	1.00 48.04	AAAA
ATOM	3621	CG2	VAL	Α	481	-4.911	22.060	70.745	1.00 46.70	AAAA
MOTA	3622	С	VAL	Α	481	-4.395	24.710	69.507	1.00 47.11	AAAA
ATOM	3623	0	VAL	Α	481	-4.158	25.160	70.626	1.00 47.18	AAAA
ATOM	3624	И			482	-5.240	25.290	68.668	1.00 47.72	AAAA
ATOM	3625	CA			482	-5.923	26.521	69.035	1.00 49.35	AAAA
ATOM	3626	С			482	-6.569	26.453	70.421	1.00 50.08	AAAA AAAA
ATOM	3627	0			482	-7.290	25.513	70.726 67.969	1.00 50.90 1.00 48.77	AAAA
ATOM	3628	CB			482 482	-6.958 -6.204	26.867 27.303	66.371	1.00 47.60	AAAA
ATOM ATOM	3629 3630	SG N			483	-6.301	27.452	71.257	1.00 50.64	AAAA
ATOM	3631	CA			483	-6.846	27.480	72.610	1.00 52.07	AAAA
ATOM	3632	CB			483	-6.555	28.834	73.266	1.00 51.72	AAAA
ATOM	3633	CG			483	-6.993	28.923	74.696	0.01 51.67	AAAA
ATOM	3634		HIS			-6.284	29.103	75.835	0.01 51.51	AAAA
ATOM	3635				483	-8.313	28.821	75.079	0.01 51.49	AAAA
ATOM	3636		HIS			-8.399	28.935	76.392	0.01 51.54	AAAA
ATOM	3637	NE2	HIS	Α	483	-7.182	29.107	76.875	0.01 51.54	AAAA
MOTA	3638	С	HIS	Α	483	-8.348	27.201	72.632	1.00 52.81	AAAA
MOTA	3639	0	HIS	Α	483	-9.064	27.535	71.690	1.00 52.72	AAAA
ATOM	3640	N			484	-8.811	26.583	73.718	1.00 53.64	AAAA
MOTA	3641	CA			484	-10.220	26.245	73.898	1.00 54.13	AAAA
ATOM	3642	CB			484	-10.396	25.458	75.177	1.00 53.89	AAAA
MOTA	3643	С		_	484	-11.090	27.490	73.938	1.00 55.36 1.00 54.99	AAAA AAAA
ATOM	3644	0			484	-11.170	28.165	74.965 72.815	1.00 54.99	AAAA
ATOM	3645 3646	N			485	-11.741 -12.614	27.782 28.952	72.682	1.00 58.61	AAAA
MOTA MOTA	3647	CA CB			485 485	-11.905	30.211	73.210	1.00 58.09	AAAA
ATOM	3648	CG			485	-12.725	31.482	73.464	0.01 58.18	AAAA
ATOM	3649				485	-11.856	32.495	74.192	0.01 58.09	AAAA
ATOM	3650				485	-13.241	32.063	72.158	0.01 58.08	AAAA
ATOM	3651	С			485	-12.950	29.145	71.205	1.00 59.34	AAAA
ATOM	3652	0			485	-13.959	28.641	70.705	1.00 60.33	AAAA
ATOM	3653	N			486	-12.065	29.885	70.540	1.00 59.08	AAAA
ATOM	3654	CA	CYS	A	486	-12.095	30.244	69.120	1.00 58.26	AAAA
ATOM	3655	С	CYS	A	486	-12.813	29.262	68.193	1.00 58.06	AAAA
MOTA	3656	0	CYS	A	486	-12.186	28.478	67.492	1.00 58.68	AAAA
ATOM	3657	CB	CYS	A	486	-10.638	30.444	68.704	1.00 57.73	AAAA
ATOM	3658	SG			486	-9.702	30.787	70.229	1.00 57.63	AAAA
ATOM	3659	N			487	-14.137	29.331	68.173	1.00 58.49	AAAA
MOTA	3660	CA			487	-14.945	28.432	67.350	1.00 59.92	AAAA
MOTA	3661	CB			487	-16.428	28.567	67.733	1.00 60.61	AAAA AAAA
ATOM	3662	OG			487	-16.879	29.912	67.654	1.00 60.79 1.00 60.28	AAAA
ATOM	3663	C			487	-14.803	28.592	65.837 65.090	1.00 50.28	AAAA
ATOM	3664	O N			487	-14.890 -14.589	27.609 29.831	65.360	1.00 59.62	AAAA
ATOM	3665	N			488	-14.589	31.104	66.094	1.00 60.88	AAAA
ATOM ATOM	3666 3667	CD CA			488	-14.451	30.055	63.918	1.00 60.37	AAAA
ATOM	3668	CB			488	-14.551	31.574	63.802	1.00 60.64	AAAA
ATOM	3669	CG			488	-13.859	32.026	65.035	1.00 60.46	AAAA
ATOM	3670	C			488	-13.149	29.537	63.339	1.00 59.45	AAAA
	,	-								

ATOM	3671	0	PRO	Α	488	-12.72	5 :	28.410	63.600	1.00 58.16	AAAA
ATOM	3672	N	GLU	A	489	-12.53		30.392	62.535	1.00 59.56	AAAA
MOTA	3673	CA			489	-11.26		30.099	61.900	1.00 59.98	AAAA
MOTA	3674	CB			489	-10.87		31.266	61.000	1.00 61.61	AAAA AAAA
ATOM	3675	CG			489	-11.72		31.427	59.738 59.904	1.00 64.90 1.00 66.41	AAAA
ATOM ATOM	3676 3677	CD OE1			489	-13.17 -13.88		30.966 31.466	60.807	1.00 66.57	AAAA
ATOM	3678	OE2			489	-13.60		30.097	59.115	1.00 66.81	AAAA
ATOM	3679	C			489	-10.25		29.913	63.021	1.00 59.06	AAAA
ATOM	3680	ŏ			489	-10.25		30.668	63.997	1.00 59.68	AAAA
ATOM	3681	N			490	-9.41	4	28.897	62.869	1.00 57.33	AAAA
ATOM	3682	CA	GLY	Α	490	-8.40	6	28.560	63.860	1.00 52.98	AAAA
ATOM	3683	С			490	-7.84		29.623	64.784	1.00 49.98	AAAA
ATOM	3684	0			490	-8.53		30.167	65.645	1.00 49.15	AAAA AAAA
MOTA	3685	N			491 491	-6.56 -5.86		29.908 30.866	64.598 65.425	1.00 47.32 1.00 44.67	AAAA
ATOM ATOM	3686 3687	CA C			491	-4.50		31.082	64.812	1.00 43.67	AAAA
ATOM	3688	0			491	-4.13		30.394	63.864	1.00 42.66	AAAA
ATOM	3689	СВ			491	-5.69		30.285	66.814	1.00 45.50	AAAA
ATOM	3690	SG			491	-4.79		28.695	66.829	1.00 45.74	AAAA
ATOM	3691	N	TRP	Α	492	-3.75	3	32.036	65.357	1.00 42.25	AAAA
ATOM	3692	CA	TRP	Α	492	-2.40	9	32.322	64.867	1.00 40.51	AAAA
ATOM	3693	CB			492	-2.25		33.817	64.596	1.00 38.02	AAAA
MOTA	3694	CG			492	-3.26		34.308	63.619	1.00 36.85	AAAA
MOTA	3695				492	-3.16		34.257	62.190	1.00 35.98	AAAA AAAA
ATOM	3696	CE2			492	-4.37 -2.14		34.743	61.675 61.297	1.00 35.57 1.00 35.55	AAAA
ATOM ATOM	3697 3698	CE3			. 492 . 492	-2.16 -4.49		34.811	63.901	1.00 35.69	AAAA
ATOM	3699	NE1			492	-5.17		35.076	62.741	1.00 36.04	AAAA
ATOM	3700	CZ2			492	-4.62		34.826	60.303	1.00 35.05	AAAA
ATOM	3701				492	-2.41	L3	33.928	59.938	1.00 35.74	AAAA
MOTA	3702	CH2	TRE	P	492	-3.63	35	34.416	59.454	1.00 35.27	AAAA
MOTA	3703	C			492	-1.38		31.858	65.882	1.00 40.22	AAAA
MOTA	3704	0			492	-0.1		31.942	65.650	1.00 39.75	AAAA AAAA
ATOM	3705	N			493	-1.89		31.354	67.004 68.080	1.00 40.45	AAAA
MOTA	3706 3707	CA C			493 493	-1.04 -1.84		30.870 30.241	69.208	1.00 40.56	AAAA
ATOM ATOM	3707	0			493	-3.0		30.282	69.203	1.00 40.87	AAAA
ATOM	3709	N			494	-1.1		29.650	70.199	1.00 39.06	AAAA
ATOM	3710	CD	PRO	Ì	494	0.2	98	29.603	70.317	1.00 38.08	AAAA
ATOM	3711	CA			494	-1.7		28.999	71.350	1.00 38.40	AAAA
ATOM	3712	CB			494	-0.6		28.297	72.018	1.00 38.53 1.00 39.26	AAAA AAAA
MOTA	3713	CG			494 494	0.4 -2.4		29.255 29.970	71.770	1.00 37.76	AAAA
ATOM ATOM	3714 3715	C 0			A 494	-3.5		29.666	72.804	1.00 38.01	AAAA
ATOM	3716	N	GL			-1.8		31.132	72.510	1.00 37.46	AAAA
ATOM	3717	CA			A 495	-2.4		32.141	73.397	1.00 36.79	AAAA
ATOM	3718	CB	GL	J	A 495	-1.6	68	33.483	73.330	1.00 33.94	AAAA
ATOM	3719	CG	GL	J I	A 495	-0.1	62	33.431	73.651	1.00 33.78	AAAA
MOTA	3720	CD			A 495	0.4		34.823	73.855	1.00 34.18	AAAA
ATOM	3721				A 495	1.6		35.000	73.576	1.00 33.62 1.00 34.25	AAAA AAAA
MOTA	3722 3723				A 495 A 495	-0.1 -3.9		35.755 32.381	74.320 72.999	1.00 37.59	AAAA
MOTA MOTA	3723	C 0			A 495	-4.3		32.045	71.886	1.00 36.83	AAAA
ATOM	3725	N			A 496	-4.7		32.936	73.922	1.00 38.38	AAAA
ATOM	3726	CD			A 496	-4.4		33.170	75.347	1.00 38.82	AAAA
MOTA	3727	CA	PR	0 2	A 496	-6.1	24	33.212	73.633	1.00 38.82	AAAA
ATOM	3728	CB	PR	0 2	A 496	-6.7	13	33.445	75.023	1.00 37.29	AAA
ATOM	3729				A 496	-5.5		34.051	75.749	1.00 38.24	AAAA
ATOM	3730				A 496	-6.2		34.421	72.693	1.00 39.12	АААА АААА
ATOM	3731				A 496	-7.3		34.610 35.239	72.072 72.603		AAAA
MOTA	3732 3733				A 497 A 497	-5.2 -5.2		36.402	71.716		AAAA
ATOM ATOM	3733				A 497	-4.3		37.535	72.280		AAAA
ATOM	3735				A 497	-4.4		37.815	73.784	1.00 37.89	AAAA
ATOM	3736				A 497	-3.4		37.056	74.592		AAAA
ATOM	3737		AR	G	A 497	-2.0		37.195	74.021		AAAA
MOTA	3738				A 497	-1.1		38.061	74.418		AAAA
ATOM	3739				A 497	-1.3		38.905	75.409		AAAA AAAA
ATOM	3740				A 497	0.0		38.068	73.822		AAAA
ATOM	3741				A 497 A 497	-4.6 -5.1		35.919 36.314	70.377 69.302		AAAA
MOTA MOTA	3742 3743				A 497	-3.6		35.057	70.456		AAAA
ATOM	3744				A 498	-3.0		34.483			AAAA
ATOM	3745				A 498	-1.8		33.476			AAAA

ATOM	3746	CG	ASP 2	A 498	-0.471	34.184	70.001	1.00 19.10	AAAA
ATOM	3747		ASP 2		-0.394	35.401	69.937	1.00 20.94	AAAA
ATOM	3748		ASP 2		0.563	33.576	70.323	1.00 6.51	AAAA
ATOM	3749	C		A 498	-4.180	33.800	68.507	1.00 40.77	AAAA
ATOM	3750	0		A 498	-3.990	33.182	67.464		AAAA
								1.00 42.22	
ATOM	3751	N		A 499	-5.408	33.958	69.017	1.00 44.60	AAAA
ATOM	3752	CA		A 499	-6.611	33.361	68.403	1.00 49.64	AAAA
MOTA	3753	С		A 499	-7.350	34.199	67.354	1.00 51.40	AAAA
ATOM	3754	0	CYS 2	A 499	-6.872	35.249	66.928	1.00 51.92	AAAA
ATOM	3755	CB	CYS A	A 499	-7.631	32.934	69.484	1.00 51.72	AAAA
ATOM	3756	SG	CYS Z	A 499	-7.777	31.125	69.713	1.00 57.35	AAAA
MOTA	3757	N	VAL 2	A 500	-8.525	33.705	66.953	1.00 53.22	AAAA
ATOM	3758	CA	VAT.	A 500	-9.382	34.332	65.948	1.00 54.64	AAAA
ATOM	3759	CB		A 500	-8.958	33.924	64.530	1.00 53.93	AAAA
ATOM	3760		VAL Z		-10.071	34.208	63.539	1.00 53.29	AAAA
ATOM	3761		VAL A			34.677	64.136	1.00 54.34	AAAA
ATOM	3762	C		A 500	-10.855	33.950	66.116	1.00 57.63	AAAA
ATOM	3763	0		A 500	-11.195	32.775	66.296	1.00 56.46	AAAA
ATOM	3764	N	SER A	A 501	-11.720	34.959	66.036	1.00 60.93	AAAA
MOTA	3765	CA	SER A	A 501	-13.168	34.788	66.159	1.00 63.49	AAAA
ATOM	3766	CB	SER A	A 501	-13.548	34.462	67.609	1.00 62.82	AAAA
ATOM	3767	OG		A 501	-12.972	33.238	68.031	0.01 62.91	AAAA
ATOM	3768	C		A 501	-13.866	36.080	65.712	1.00 65.49	AAAA
ATOM	3769	o		A 501	-13.260	36.907	65.021	1.00 66.21	AAAA
ATOM	3770	N		A 502	-15.131	36.238	66.108	1.00 66.84	AAAA
ATOM	3771	CA		A 502	-15.949	37.417	65.788	1.00 67.74	AAAA
ATOM	3772		ALA		-15.462	38.093	64.501	1.00 67.63	AAAA
MOTA	3773	C	ALA 2	A 502	-17.430	37.053	65.650	1.00 68.67	AAAA
MOTA	3774	0	ALA 2	A 502	-17.779	35.867	65.846	1.00 69.66	AAAA
MOTA	3775	OXT	ALA Z	A 502	-18.229	37.963	65.345	1.00 69.23	AAAA
ATOM	3776	CB	LEU I	В 1	1.919	84.727	27.793	1.00 53.36	BBBB
ATOM	3777	CG	LEU I		3.216	84.273	28.484	1.00 54.82	BBBB
ATOM	3778		LEU I		2.904	83.604	29.824	1.00 54.60	BBBB
ATOM	3779		LEU I		3.953	83.299	27.596	1.00 55.41	BBBB
ATOM	3780	С	LEU I		0.582	85.650	25.886	1.00 52.59	BEBB
ATOM	3781	0	LEU I		-0.170	84.944	25.218	1.00 53.14	BBBB
ATOM	3782	И	LEU 1		2.958	86.210	26.088	1.00 51.16	BBBB
ATOM	3783	CA	LEU 1	B 1	1.951	85.141	26.313	1.00 52.33	BBBB
MOTA	3784	N	ALA I	В 2	0.267	86.878	26.290	1.00 52.82	BBBB
ATOM	3785	CA	ALA I	3 2	-0.995	87.540	25.947	1.00 52.16	BBBB
ATOM	3786	CB	ALA I	3 2	-1.677	88.062	27.208	1.00 53.00	BBBB
MOTA	3787	С	ALA I		-0.614	88.703	25.026	1.00 51.80	BBBB
ATOM	3788	0	ALA I		-0.629	89.875	25.430	1.00 51.59	BBBB
ATOM	3789	N	GLU I		-0.281	88.352	23.785	1.00 50.43	BBBB
ATOM	3790	CA	GLU I		0.179	89.291	22.763	1.00 48.40	BBBB
ATOM	3791	CB	GLU I		0.531		21.491	1.00 46.41	BBBB
						88.498			
ATOM	3792	CG	GLU I		1.484	87.338	21.732	0.01 46.86	BBBB
ATOM	3793	CD	GLU I	3	1.620	86.433	20.523	0.01 46.60	BBBB
MOTA	3794		GLU !		2.067	86.917	19.461	0.01 46.78	BBBB
MOTA	3795	OE2	GLU I	3	1.280	85.236	20.636	0.01 46.80	BBBB
ATOM	3796	C	GLU I	3	-0.675	90.523	22.387	1.00 46.90	BBBB
ATOM	3797	0	GLU I	3	-0.149	91.637	22.312	1.00 47.41	BBBB
MOTA	3798	N	LYS I		-1.976	90.352	22.180	1.00 43.74	BBBB
ATOM	3799	CA	LYS 1		-2.793	91.476	21.743	1.00 40.61	BBBB
ATOM	3800	CB	LYS		-3.747	90.992	20.645	1.00 42.30	BBBB
ATOM	3801	CG	LYS		-3.088	90.094	19.586	1.00 42.15	BBBB
ATOM						90.756	18.941	0.01 42.11	BBBB
	3802	CD	LYS !		-1.879				
ATOM	3803	CE	LYS 1		-1.191	89.818	17.960	0.01 42.16	BBBB
ATOM	3804	NZ	LYS 1		0.027	90.429	17.358	0.01 42.32	BBBB
MOTA	3805	С	LYS I		-3.577	92.262	22.788	1.00 38.21	BBBB
ATOM	3806	0	LYS 1	3 4	-3.640	91.883	23.946	1.00 36.96	BBBB
MOTA	3807	N	LYS I	В 5	-4.166	93.373	22.344	1.00 36.76	BBBB
ATOM	3808	CA	LYS !		-4.983	94.268	23.176	1.00 35.51	BBBB
ATOM	3809	CB	LYS		-4.753	95.723	22.766	1.00 34.71	BBBB
MOTA	3810	CG	LYS		-3.305	96.181	22.836	0.01 34.80	BBBB
ATOM	3811	CD	LYS		-3.169	97.621	22.364	0.01 34.61	BBBB
								0.01 34.51	BBBB
MOTA	3812	CE	LYS		-1.725	98.091	22.415		
MOTA	3813	NZ	LYS 1		-1.579	99.498	21.948	0.01 34.38	BBBB
ATOM	3814	С	LYS I		-6.453	93.935	22.943	1.00 35.09	BBBB
MOTA	3815	0	LYS I		-6.956	94.153	21.846	1.00 35.64	BBBB
ATOM	3816	N	VAL I	3 ⋅ 6	-7.152	93.435	23.956	1.00 33.89	BBBB
MOTA	3817	CA	VAL I	3 6	-8.554	93.062	23.775	1.00 34.07	BBBB
ATOM	3818	CB	VAL I		-8.999	92.056	24.835	1.00 34.32	. BBBB
ATOM	3819		VAL I		-8.745	90.642	24.355	1.00 34.72	BBBB
ATOM	3820		VAL I		-8.240	92.310	26.112	1.00 35.92	BBBB
			استدد	_	2.210				

MOTA	3821	С	VAL	В	6	-9.578	94.185	23.760	1.00 33.85	BBBB
MOTA	3822	0	VAL		6	-9.287	95.308	24.168	1.00 34.65	BBBB
MOTA	3823	N	CYS		7	-10.769	93.850	23.253	1.00 32.70	BBBB
MOTA	3824	CA	CYS		7	-11.939	94.737	23.155	1.00 29.92	BBBB
ATOM	3825	С	CYS		7	-13.181	93.865	23.177	1.00 28.64	BBBB
ATOM	3826	0	CYS		7	-13.219	92.794	22.581	1.00 26.76	BBBB
ATOM	3827	CB	CYS		7	-11.969	95.600	21.859	1.00 29.10 1.00 31.71	BBBB BBBB
MOTA	3828	SG	CYS		7 8	-11.325 -14.184	94.847 94.316	20.325 23.910	1.00 31.71	BBBB
ATOM ATOM	3829 3830	N CA	GLN GLN		8	-15.450	93.619	23.915	1.00 28.75	BBBB
ATOM	3831	CB	GLN		8	-16.321	94.226	25.001	1.00 25.47	BBBB
ATOM	3832	CG	GLN		8	-17.130	93.235	25.901	1.00 24.87	BBBB
ATOM	3833	CD	GLN		8	-16.237	92.348	26.725	1.00 24.75	BBBB
ATOM	3834		GLN		8	-15.113	92.727	27.038	1.00 26.08	BBBB
ATOM	3835	NE2	GLN	В	8	-16.721	91.170	27.088	1.00 23.95	BBBB
ATOM	3836	С	GLN	В	8	-15.999	94.055	22.648	1.00 30.32	BBBB
MOTA	3837	0	GLN	В	8	-15.888	95.226	22.307	1.00 31.06	BBBB
ATOM	3838	N	GLY	В	9	-16.550	93.151	21.857	1.00 31.46	BBBB
MOTA	3839	CA	GLY	В	9	-17.110	93.620	20.602	1.00 33.02	BBBB
ATOM	3840	С	GLY		9	-18.491	94.165	20.927	1.00 33.15	BBBB
ATOM	3841	0	GLY		9	-18.746	94.617	22.049	1.00 32.68	BBBB
ATOM	3842	N	THR		10	-19.392	94.139	19.958	1.00 33.19	BBBB
MOTA	3843	CA	THR		10	-20.750	94.591	20.219	1.00 33.01	BBBB
ATOM	3844	CB	THR		10	-21.101	95.921	19.483	1.00 32.03	BBBB
ATOM	3845		THR		10	-20.808	95.819	18.081	1.00 30.99 1.00 31.25	BBBB BBBB
ATOM	3846		THR		10	-20.310 -21.676	97.069 93.475	20.096 19.795	1.00 31.25	BBBB
ATOM ATOM	3847 3848	С 0	THR		10 10	-21.222	92.394	19.793	1.00 32.33	BBBB
ATOM	3849	И	SER		11	-22.970	93.718	19.425	1.00 33.37	BBBB
ATOM	3850	CA	SER		11	-23.962	92.734	19.508	1.00 35.30	BBBB
ATOM	3851	CB	SER		11	-23.994	91.574	20.502	1.00 35.85	BBBB
ATOM	3852	OG	SER		11	-22.865	90.728	20.314	1.00 37.56	BBBB
ATOM	3853	Ċ	SER		11	-25.303	93.426	19.436	1.00 35.19	BBBB
ATOM	3854	Ō	SER		11	-26.208	93.155	20.215	1.00 35.84	BBBB
MOTA	3855	N	ASN		12	-25.402	94.344	18.486	1.00 35.44	BBBB
MOTA	3856	CA	ASN	В	12	-26.608	95.116	18.276	1.00 36.31	BBBB
ATOM	3857	CB	ASN	В	12	-26.279	96.609	18.235	1.00 36.50	BBBB
MOTA	3858	CG	ASN	В	12	-25.450	97.051	19.419	1.00 35.36	BBBB
ATOM	3859		ASN		12	-25.719	96.661	20.551	1.00 33.05	BBBB
ATOM	3860		ASN		12	-24.440	97.877	19.163	1.00 34.37	BBBB
ATOM	3861	C	ASN		12	-27.225	94.697	16.962	1.00 35.56	BBBB
ATOM	3862	0	ASN		12	-28.360	95.049	16.667 16.175	1.00 35.59 1.00 34.39	BBBB BBBB
ATOM ATOM	3863 3864	N CA	LYS		13 13	-26.468 -26.963	93.941 93.474	14.891	1.00 34.39	BBBB
ATOM	3865	CB	LYS		13	-28.254	92.696	15.094	1.00 33.99	BBBB
ATOM	3866	CG	LYS		13	-28.144	91.603	16.134	1.00 34.22	BBBB
ATOM	3867	CD	LYS		13	-27.304	90.467	15.638	1.00 34.54	BBBB
ATOM	3868	CE	LYS		13	-28.078	89.168	15.762	1.00 37.14	BBBB
ATOM	3869	NZ	LYS	В	13	-29.429	89.250	15.121	1.00 38.18	BBBB
ATOM	3870	C	LYS	В	13	-27.224	94.662	13.978	1.00 32.72	BBBB
ATOM	3871	0	LYS	в В	13	-26.336	95.489	13.747	1.00 33.97	BBBB
MOTA	3872	N	LE	JB	14	-28.447	94.778	13.477	1.00 30.20	BBBB
MOTA	3873	CA	LEU	JB	14	-28.742	95.883	12.584	1.00 29.73	BBBB
MOTA	3874	CB	LEU		14	-29.520	95.379	11.377	1.00 26.91	BBBB
ATOM	3875	CG	LE		14	-28.874	94.364	10.441	1.00 25.95	BBBB
ATOM	3876		LE		14	-29.501	94.565	9.091	1.00 27.81	BBBB
ATOM	3877		LEU		14	-27.384	94.542	10.319	1.00 26.44	BBBB
ATOM	3878	C	LE		14	-29.463	97.102	13.156	1.00 30.62 1.00 33.95	BBBB BBBB
ATOM	3879	0		JB	14	-30.250	97.729 97.470	12.455 14.404	1.00 30.53	BBBB
ATOM ATOM	3880 3881	И		R B	15 15	-29.191 -29.857	98.630		1.00 28.45	BBBB
ATOM	3882	CA CB		RB	15	-30.435	98.338	16.361	1.00 26.58	BBBB
ATOM	3883		L TH		15	-29.425	98.550		1.00 29.12	BBBB
ATOM	3884		2 TH		15	-30.933	96.914	16.436	1.00 24.36	BBBB
MOTA	3885	C		RB	15	-28.910	99.801		1.00 28.12	BBBB
ATOM	3886	ō		R B	15	-27.700	99.640		1.00 27.23	BBBB
ATOM	3887	N		N B	16		100.976		1.00 29.08	BBBB
ATOM	3888	CA		ΝB			102.220		1.00 29.48	BBBB
ATOM	3889	СВ		NВ	16		103.266		1.00 32.16	BBBB
MOTA	3890	CG		N B		-28.796	103.152	13.088	1.00 33.99	BBBB
ATOM	3891	CD		ΝВ	16	-28.938	104.462	12.375		BBBB
MOTA	3892		l GL		16	-30.031	105.016	12.292		BBBB
MOTA	3893		2 GL				104.979		1.00 35.49	BBBB
ATOM	3894	С		N B			102.881			BBBB
ATOM	3895	0	GL	N B	16	-29.679	103.146	17.475	1.00 27.32	BBBB

ATOM	3896	N	LEU	В	17	-27.44	7 103.188	17.237	1.00 25.33	BBBB
ATOM	3897	CA	LEU		17	-27.24	103.845	18.500	1.00 23.24	BBBB
ATOM	3898	CB	LEU		17		3 103.523	19.039	1.00 20.34	BBBB
MOTA	3899	CG	LEU		17		3 102.059	19.066	1.00 16.55 1.00 16.50	BBBB BBBB
ATOM ATOM	3900 3901		LEU LEU		17 17		2 101.991	19.676 19.844	1.00 15.84	BEBB
ATOM	3902	CDZ	LEU		17		3 105.322	18.176	1.00 23.10	BBBB
ATOM	3903	Õ	LEU		17		7 106.021	18.019	1.00 23.12	BBBB
ATOM	3904	N	GLY		18	-28.60	7 105.780	18.027	1.00 22.35	BBBB
ATOM	3905	CA	GLY	В	18	-28.84	3 107.185	17.734	1.00 22.65	BBBB
ATOM	3906	С	GLY		18		3 107.660	16.307	1.00 22.60	BBBB
MOTA	3907	0	GLY		18		5 106.959	15.351	1.00 22.66	BBBB
ATOM	3908	N	THR		19		5 108.869	16.173	1.00 22.70 1.00 23.31	BBBB BBBB
ATOM	3909 3910	CA CB	THR THR		19 19		0 109.475 0 111.008	14.869 14.982	1.00 20.91	BBBB
ATOM ATOM	3911		THR		19		1 111.461	15.673	1.00 19.29	BBBB
ATOM	3912		THR		19		7 111.451	15.750	1.00 20.77	BBBB
ATOM	3913	C	THR		19	-26.50	9 109.025	14.265	1.00 25.24	BBBB
ATOM	3914	0	THR	В	19	-25.62	2 108.579	14.994	1.00 26.83	BBBB
MOTA	3915	N	PHE		20		5 109.141	12.944	1.00 25.61	BBBB
ATOM	3916	CA	PHE		20		8 108.721	12.294	1.00 27.37	BBBB
ATOM	3917	CB	PHE		20 20		1 109.157 8 108.484	10.819 9.956	1.00 27.98 1.00 29.52	BBBB BBBB
ATOM ATOM	3918 3919	CG CD1	PHE		20		9 109.100		1.00 29.32	BBBB
ATOM	3920		PHE		20		5 107.255	10.327	1.00 29.83	BBBB
ATOM	3921		PHE	_	20		9 108.509		1.00 27.44	BBBB
ATOM	3922		PHE		20		3 106.653		1.00 28.37	BBBB
MOTA	3923	CZ	PHE	В	20	-28.16	1 107.284	8.390	1.00 28.23	BBBB
MOTA	3924	С	PHE		20		0 109.263		1.00 28.25	BBBB
ATOM	3925	0	PHE		20		0 108.520		1.00 28.94 1.00 28.89	BBBB
MOTA	3926	N	GLU		21		2 110.544 8 111.101		1.00 28.89	BBBB BBBB
ATOM ATOM	3927 3928	CA CB	GLU GLU		21 21		6 111.101 4 112.605		1.00 29.68	BBBB
ATOM	3929	CG	GLU		21		9 113.296		1.00 31.79	BBBB
ATOM	3930	CD	GLU		21		0 113.514		1.00 32.77	BBBB
ATOM	3931		GLU		21	-20.58	5 113.629	13.062	1.00 33.34	BBBB
ATOM	3932	OE2	GLU	В	21	-19.39	9 113.596	14.886	1.00 32.14	BBBB
ATOM	3933	C	GLU	В	21		9 110.369		1.00 30.86	BBBB
ATOM	3934	0	GLU		21		3 110.048	_	1.00 31.08	BBBB
ATOM	3935	N	ASP		22		0 110.104 3 109.402		1.00 29.10	BBBB BBBB
ATOM ATOM	3936 3937	CA CB	ASP ASP		22 22		0 109.40 <u>2</u>		1.00 27.59	BBBB
MOTA	3938	CG	ASP		22		4 110.547		1.00 28.16	BBBB
ATOM	3939		ASP		22		1 111.340		1.00 28.39	BBBB
MOTA	3940	OD2	ASP	В	22	-26.61	5 110.751	18.877	1.00 26.72	BBBB
MOTA	3941	С	ASP		22		6 107.999		1.00 30.62	BBBB
ATOM	3942	0	ASP		22		2 107.604		1.00 29.71	BBBB
ATOM	3943	N	HIS		23		5 107.247		1.00 31.43	BBBB BBBB
MOTA	3944 3945	CA CB	HIS HIS		23 23		4 105.881 5 105.451		1.00 29.12	BBBB
ATOM ATOM	3945	CG	HIS		23		7 103.491 7 103.997		1.00 32.20	BBBB
ATOM	3947		HIS		23		3 103.351		1.00 32.38	BBBB
ATOM	3948	ND1	HIS	В	23	-23.68	9 103.021	15.021	1.00 33.27	BBBB
MOTA	3949		HIS		23		8 101.834		1.00 34.35	BBBB
MOTA	3950		HIS		23		4 102.007		1.00 35.04	BBBB
ATOM	3951	C	HIS		23		1 105.724		1.00 27.10 1.00 28.29	BBBB BBBB
ATOM ATOM	3952 3953	N O	HIS PHE		23 24		1 104.790 0 106.641		1.00 25.29	BBBB
ATOM	3954	CA	PHE		24		9 106.541		1.00 25.49	BBBB
ATOM	3955	CB	PHE		24		0 107.557		1.00 21.94	BBBB
ATOM	3956	CG	PHE		24	-18.32	3 107.548	13.140	1.00 18.19	BBBB
MOTA	3957	CD1	PHE	В	24		6 106.553		1.00 19.86	BBBB
ATOM	3958		PHE		24		4 108.505		1.00 18.72	BBBB
ATOM	3959		PHE		24		8 106.515		1.00 20.70 1.00 20.59	BBBB BBBB
ATOM	3960		PHE		24		2 108.481 5 107.487		1.00 20.33	BBBB
MOTA	3961	CZ	PHE		24		2 106.757		1.00 27.60	· BBBB
MOTA MOTA	3962 3963	C 0	PHE PHE		24 24		8 106.111		1.00 28.03	BBBB
ATOM	3964	N	LEU		25		5 107.666		1.00 28.10	BBBB
ATOM	3965	CA	LEU		25		5 107.973		1.00 26.50	BBBB
ATOM	3966	СВ	LEU		25	-19.29	2 109.189		1.00 26.15	BBBB
ATOM	3967	CG	LEU		25		7 109.682		0.01 25.57	BBBB
ATOM	3968		LEU		25		0 110.048		0.01 25.31	BBBB BBBB
ATOM	3969		LEU		25		9 110.882		0.01 25.31 1.00 26.31	BBBB
ATOM	3970	С	LEU	В	25	-18.64	9 106.758	18.779	1.00 20.31	2000

ATOM	3971	0	LEU B	25	-17.573 106	.416	19.271	1.00 26.52	BBBB
ATOM	3972	N	SER B	26	-19.788 106	.098	18.980	1.00 27.04	BBBB
ATOM	3973	CA	SER B	26	-19.866 104	.888	19.811	1.00 25.76	5 BBBB
ATOM	3974	CB	SER B	26	-21.257 104		19.706	1.00 25.62	2 BBBB
ATOM	3975	OG	SER B	26	-21.779 103		20.974	1.00 27.7	7 BBBB
ATOM	3976	C	SER B	26	-18.865 103		19.234	1.00 25.29	
ATOM	3977	ō	SER B	26	-17.892 103		19.870	1.00 26.13	
			LEU B	27	-19.128 103		17.994	1.00 26.1	
ATOM	3978	N			-18.297 102		17.224	1.00 26.8	
ATOM	3979	CA	LEU B	27	-18.749 102		15.764	1.00 24.9	
ATOM	3980	CB	LEU B	27			14.571	1.00 24.0	
MOTA	3981	CG	LEU B	27	-18.011 102		14.966	1.00 24.0	
ATOM	3982		LEU B	27	-17.071 101			1.00 22.4	
ATOM	3983		LEU B	27	-19.079 101		13.615	1.00 22.0	
ATOM	3984	С	LEU B	27	-16.805 102		17.347		
MOTA	3985	0	LEU B		-16.012 102		17.612	1.00 25.0	
MOTA	3986	N	GLN B		-16.428 104		17.169	1.00 29.6	
MOTA	3987	CA	GLN B		-15.020 104		17.231	1.00 32.6	
MOTA	3988	CB	GLN B		-14.842 100		16.880	1.00 33.1	
MOTA	3989	CG	GLN B		-13.396 100		16.825	1.00 32.7	
MOTA	3990	CD	GLN B		-13.234 10		16.546	1.00 33.5	
ATOM	3991		GLN B		-12.139 108		16.248	1.00 34.6	
ATOM	3992	NE2	GLN B		-14.323 10		16.649	1.00 31.8	
ATOM	3993	С	GLN B	28	-14.357 10	4.300	18.565	1.00 33.6	
ATOM	3994	0	GLN B	28	-13.223 10	3.843	18.620	1.00 33.7	
ATOM	3995	N	ARG B	29	-15.054 10	4.626	19.642	1.00 34.4	
MOTA	3996	CA	ARG E	29	-14.501 10	4.421	20.970	1.00 34.9	
MOTA	3997	CB	ARG E	29	-15.443 10	5.012	22.024	1.00 36.9	
ATOM	3998	CG	ARG E	29	-15.065 10	4.716	23.475	1.00 41.1	
ATOM	3999	CD	ARG E	29	-15.980 10	5.446	24.447	1.00 43.8	
MOTA	4000	NE	ARG E	29	-17.350 10	5.476	23.947	1.00 48.8	
ATOM	4001	CZ	ARG E	3 29	-17.805 10	6.359	23.061	1.00 51.1	
MOTA	4002	NH1	ARG E	3 29	-16.993 10		22.582	1.00 52.4	
ATOM	4003	NH2	ARG E	3 29	-19.063 10		22.637	1.00 52.1	
ATOM	4004	С	ARG E		-14.310 10		21.209	1.00 33.2	
ATOM	4005	0	ARG E		-13.224 10		21.578	1.00 32.8	
ATOM	4006	N	MET E		-15.374 10		20.984	1.00 30.2	
ATOM	4007	CA	MET E		-15.321 10		21.189	1.00 28.4	
MOTA	4008	CB	MET E		-16.583 10		20.625	1.00 24.8	
ATOM	4009	CG	MET E			8.570	20.609	1.00 18.8	
ATOM	4010	SD	MET I			7.870	22.242	1.00 15.5	
ATOM	4011	CE	MET I			7.726	22.879	1.00 11.9	
ATOM	4012	C	MET I		-14.094 10		20.574	1.00 29.5	
ATOM	4013	0	MET I			99.222	21.184 19.378	1.00 29.3	
ATOM	4014	N	PHE I		-13.720 10	9.853	18.718	1.00 30.4	
ATOM	4015	CA				9.417	17.319	1.00 27.6	
MOTA	4016	CB	PHE I			98.413	17.320	1.00 24.9	
MOTA	4017 4018	CG	PHE !			97.056	17.326	1.00 24.3	
ATOM	4018		PHE			98.830	17.219	1.00 22.8	
MOTA			L PHE			96.140	17.365	1.00 24.2	
ATOM	4020 4021		PHE			97.923	17.187	1.00 21.0	
ATOM ATOM	4021	CZ	PHE			96.584	17.256	1.00 22.	
ATOM	4022	C	PHE		-11.276 10		18.627	1.00 32.3	
ATOM	4024	Ö	PHE			99.923	18.376	1.00 34.	
ATOM	4025	И	ASN		-11.249 10		18.826	1.00 33.	
ATOM	4025	CA	ASN		-9.995 10		18.726	1.00 35.	
ATOM	4027	CB	ASN		-10.119 10		19.368	1.00 38.	
ATOM	4028	CG			-8.902 10		19.115	1.00 42.	
ATOM	4029		1 ASN		-7.937 10		18.512	1.00 44.	
ATOM	4030		2 ASN		-8.942 10		19.573	1.00 48.	31 BBBB
ATOM	4031	C	ASN		-8.912 10		19.431	1.00 35.	47 BBBB
ATOM	4032	ō	ASN		-9.040 10		20.608	1.00 37.	31 BBBB
ATOM	4033		ASN		-7.874 1	01.456	18.695	1.00 35.	33 BBBB
ATOM	4034	CA			-6.725 1	00.732	19.259	1.00 35.	35 BBBB
ATOM	4035				-6.253 1		20.547	1.00 35.	26 BBBB
ATOM	4036				-5.714 1		20.305	1.00 36.	
ATOM	4037		1 ASN		-4.744 1		19.559	1.00 37.	
ATOM	4038		2 ASN		-6.336 1		20.940		
ATOM	4039		ASN			99.227	19.539		
ATOM	4040		ASN			98.728	19.793	1.00 34.	
ATOM	4041		CYS			98.475	19.520	1.00 30.	
ATOM	4042				-7.539	97.075	19.842		
ATOM	4043		CYS			96.191	18.767	1.00 30.	
ATOM	4044		CYS			96.279	17.606	1.00 31.	39 BBBB
ATOM	4045	CB	CYS	B 34	-8.767	96.389	20.426	1.00 31.	16 BBBB

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ATOM	4046	SG	CYS	B	34	-10.272	96.335	19.441	1.00 30.50	BBBB
			GLU		35	-6.058	95.336	19.195	1.00 29.44	BBBB
ATOM	4047	N								
ATOM	4048	CA	GLU	В	35	-5.408	94.367	18.334	1.00 26.90	BBBB
ATOM	4049	CB	GLU	В	35	-3 <i>.</i> 976	93.987	18.911	1.00 23.70	BBBB
ATOM	4050	CG	GLU	R	35	-2.894	95.194	19.105	1.00 19.61	BBBB
					35	-1.381	94.758	19.364	1.00 18.98	BBBB
ATOM	4051	CD	GLU							
ATOM	4052	OE1	GLU	В	35	-1.079	<b>93.56</b> 8	19.208	1.00 21.57	BBBB
ATOM	4053	OE2	GLU	В	35	-0.473	95.574	19.697	1.00 6.51	BBBB
ATOM	4054	С	GLU		35	-6.405	93.146	18.231	1.00 26.17	BBBB
							•			
ATOM	4055	0	GLU	В	35	-6.411	92.439	17.226	1.00 27.74	BBBB
ATOM	4056	N	VAL	В	36	-7.296	92.947	19.216	1.00 24.39	BBBB
ATOM	4057	CA	VAL	B	36	-8.237	91.798	19.185	1.00 22.45	BBBB
						-7.639	90.560	19.874	1.00 21.35	BBBB
ATOM	4058	CB	VAL		36					
MOTA	4059	CG1	VAL	В	36	-8.707	89.485	20.015	1.00 17.39	BBBB
ATOM	4060	CG2	VAL	В	36	-6.455	90.052	19.089	1.00 19.79	BBBB
ATOM	4061	С	VAL	B	36	-9.642	91.935	19.779	1.00 21.52	BBBB
								20.925	1.00 18.07	BBBB
ATOM	4062	0	VAL		36.	-9.814	92.309			
ATOM	4063	N	VAL	В	37	-10.636	91.532	18.998	1.00 23.45	BBBB
ATOM	4064	CA	VAL	В	37	-12.044	91.598	19.390	1.00 25.22	BBBB
ATOM	4065	СВ	VAL		37	-12.978	91.862	18.163	1.00 25.99	BBBB
						•			1.00 25.09	BBBB
ATOM	4066		VAL		37	-14.454	91.776	18.587		
ATOM	4067	CG2	VAL	В	37	-12.691	93.205	17.556	1.00 27.27	BBBB
ATOM	4068	С	VAL	В	37	-12.591	90.335	20.049	1.00 25.71	BBBB
ATOM	4069	0	VAL		37	-12.698	89.286	19.405	1.00 25.52	BBBB
										•
ATOM	4070	N	LEU		38	-12.946	90.450	21.325	1.00 25.93	BBBB
ATOM	4071	CA	LEU	В	38	-13.560	89.358	22.068	1.00 26.77	BBBB
ATOM	4072	CB	LEU	В	38	-13.325	89.560	23.562	1.00 25.32	BBBB
								24.028	1.00 24.63	BBBB
MOTA	4073	CG	LEU		38	-11.874	89.463			
ATOM	4074	CD1	LEU	В	38	-11.687	90.139	25.371	1.00 24.61	BBBB
ATOM	4075	CD2	LEU	В	38	-11.488	88.001	24.101	1.00 26.13	BBBB
ATOM	4076	C	LEU		38	-15.033	89.581	21.717	1.00 29.85	BBBB
									1.00 32.46	BBBB
ATOM	4077	0	LEU		38	-15.606	90.635	22.049		
MOTA	4078	И	GLY	В	39	-15.652	88.629	21.030	1.00 29.73	BBBB
ATOM	4079	CA	GLY	В	39	-17.038	88.838	20.632	1.00 30.64	BBBB
ATOM	4080	С	GLY		39	-17.229	89.281	19.176	1.00 30.42	BBBB
									1.00 31.61	BBBB
ATOM	4081	0	GLY		39	-16.471	88.878	18.289		
ATOM	4082	N	ASN	В	40	-18.222	90.130	18.912	1.00 28.68	BBBB
ATOM	4083	CA	ASN	В	40	-18.493	90.554	17.536	1.00 25.31	BBBB
ATOM	4084	CB	ASN		40	-19.969	90.425	17.255	1.00 27.06	BBBB
									1.00 30.05	BBBB
ATOM	4085	CG	ASN		40	-20.486	89.083	17.608		
MOTA	4086	OD1	ASN	В	40	-20.014	88.069	17.089	1.00 29.61	BBBB
ATOM	4087	ND2	ASN	В	40	-21.465	89.049	18.509	1.00 32.24	BBBB
ATOM	4088	С	ASN		40	-18.055	91.920	17.051	1.00 22.67	BBBB
										BBBB
ATOM	4089	0	ASN		40	-18.135	92.910	17.770	1.00 20.05	
ATOM	4090	N	LEU	В	41	-17.603	91.946	15.800	1.00 20.39	BBBB
ATOM	4091	CA	LEU	В	41	-17.177	93.166	15.139	1.00 19.05	BBBB
ATOM	4092	СВ	LEU		41	-15.911	92.937	14.326	1.00 18.26	BBBB
										BBBB
MOTA	4093	CG	LEU	В	41	-15.526	94.123	13.444	1.00 16.78	
ATOM	4094	CD1	LEU	В	41	-15.679	95.394	14.232	1.00 16.21	BBBB
ATOM	4095	CD2	LEU	В	41	-14.107	93.972	12.931	1.00 16.49	BBBB
ATOM	4096	С	LEU		41	-18.301	93.561	14.207	1.00 19.38	BBBB
									1.00 18.58	BBBB
MOTA	4097	0	LEU		41	-18.436	92.991	13.139		
ATOM	4098	N	GLU	В	42	-19.104	94.534	14.633	1.00 20.08	BBBB
ATOM	4099	CA	GLU	В	42	-20.245	95.013	13.871	1.00 19.41	BBBB
ATOM	4100	CB	GLU		42	-21.504	94.959	14.730	1.00 20.31	BBBB
								15.204	1.00 24.93	BBBB
MOTA	4101	CG	GLU		42	-21.896	93.573			
MOTA	4102	CD	GLU	В	42	-23.284	93.539	15.835	1.00 28.76	BBBB
ATOM	4103	OE1	GLU	В	42	-23.995	92.523	15.662	1.00 29.63	BBBB
MOTA	4104	OE2	GLU	B	42	-23.668	94.524	16.505	1.00 29.99	BBBB
			GLU		42	-20.068	96.433	13.370	1.00 17.66	BBBB
ATOM	4105	C								
ATOM	4106	0	GLU	В	42	-20.320	97.364	14.100	1.00 18.69	BBBB
ATOM	4107	N	ILE	В	43	-19.643	96.597	12.122	1.00 17.59	BBBB
ATOM	4108	CA	ILE		43	-19.476	97.924	11.539	1.00 17.51	. BBBB
							97.990	10.645	1.00 13.50	BBBB
ATOM	4109	CB	ILE		43	-18.246				
MOTA	4110	CG2	ILE	В	43	-18.074	99.400	10.121	1.00 8.91	BBBB
ATOM	4111	CG1	ILE	В	43	-17.032	97.502	11.433	1.00 12.43	BBBB
ATOM	4112		ILE		43	-15.723	97.559	10.716	1.00 11.29	BBBB
									1.00 19.50	BBBB
MOTA		, C	ILE		43	-20.684	98.292	10.686		
ATOM	4114	0	ILE	В	43	-20.791	97.846	9.561	1.00 20.74	BBBB
MOTA	4115	N	THR	В	44	-21.590	99.102	11.220	1.00 21.87	BBBB
ATOM		CA	THR		44	-22.769	99.507	10.475	1.00 24.32	· BBBB
									1.00 26.37	BBBB
ATOM	4117	CB	THR		44	-24.050	98.946	11.093		
ATOM	4118	OG1	THR	₿	44	-24.087	99.266	12.491	1.00 29.38	BBBB
ATOM	4119	CG2	THR	В	44	-24.132	97.445	10.885	1.00 25.76	. BBBB
ATOM	4120	С	THR		44		101.011	10.336	1.00 24.88	BBBB
112 011	-1120	-	- 1111	_	* *	22.555			-	

ATOM	4121	0	THR	В	44	-22.250 101.817 10.941 1.00 25.81	BBBB
ATOM	4122	N	TYR	В	45	-23.944 101.353 9.512 1.00 24.59	BBBB
ATOM	4123	CA	TYR		45	-24.347 102.716 9.190 1.00 23.28	BBBB
MOTA	4124	CB	TYR		45	-25.405 103.175 10.180 1.00 22.33 -26.551 102.210 10.311 1.00 23.06	BBBB
ATOM	4125 4126	CG	TYR TYR		45 45	-26.551 102.210 10.311 1.00 23.06 -26.393 101.012 10.986 1.00 23.27	BBBB BBBB
ATOM ATOM	4127		TYR		45	-27.449 100.123 11.117 1.00 26.08	BBBB
ATOM	4128		TYR		45	-27.797 102.499 9.765 1.00 22.19	BBBB
ATOM	4129		TYR		45	-28.860 101.623 9.887 1.00 22.61	BBBB
ATOM	4130	CZ	TYR		45	-28.685 100.433 10.567 1.00 25.70	BBBB
ATOM	4131	OH	TYR	В	45	-29.740 99.555 10.720 1.00 24.88	BBBB
MOTA	4132	С	TYR		45	-23.267 103.792 9.036 1.00 23.29	BBBB
ATOM	4133	0	TYR		45	-23.570 104.991 9.019 1.00 22.74	BBBB BBBB
ATOM	4134	N	VAL		46 46	-22.010 103.384 8.914 1.00 23.44 -20.964 104.372 8.717 1.00 24.86	BBBB
ATOM ATOM	4135 4136	CA CB	VAL		46	-19.551 103.725 8.714 1.00 24.27	BBBB
ATOM	4137		VAL		46	-18.466 104.804 8.673 1.00 22.13	BBBB
ATOM	4138		VAL		46	-19.381 102.885 9.960 1.00 25.62	BBBB
MOTA	4139	C	VAL	В	46	-21.275 105.050 7.374 1.00 25.94	BBBB
ATOM	4140	0	VAL		46	-21.397 104.393 6.327 1.00 25.97	BBBB
ATOM	4141	N	GLN		47	-21.439 106.369 7.430 1.00 26.63 -21.762 107.170 6.259 1.00 27.06	BBBB BBBB
ATOM	4142	CA CB	GLN GLN		47 47	-21.762 107.170 6.259 1.00 27.06 -22.633 108.349 6.665 1.00 23.99	BBBB
ATOM ATOM	4143 4144	CG	GLN		47	-23.942 107.941 7.275 1.00 24.28	BBBB
ATOM	4145	CD	GLN		47	-25.024 107.721 6.245 1.00 26.17	BBBB
ATOM	4146		GLN		47	-25.494 106.603 6.064 1.00 25.67	BBBB
ATOM	4147		GLN		47	-25.431 108.794 5.563 1.00 25.63	BBBB
MOTA	4148	С	GLN	В	47	-20.546 107.667 5.488 1.00 29.06	BBBB
ATOM	4149	0	GLN		47	-19.412 107.683 5.997 1.00 27.81	BBBB
ATOM	4150	N	ARG		48	-20.815 108.075	BBBB BBBB
ATOM ATOM	4151 4152	CA CB	ARG ARG		48 48	-19.800 108.562 3.337 1.00 31.26 -20.472 109.204 2.125 1.00 31.50	BBBB
ATOM	4153	CG	ARG		48	-21.397 108.262 1.374 0.01 31.64	BBBB
ATOM	4154	CD	ARG		48	-22.043 108.945 0.182 0.01 31.84	BBBB
ATOM '	4155	NE	ARG	В	48	-22.972 108.061 -0.516 0.01 31.95	BBBB
MOTA	4156	CZ	ARG		48	-24.081 107.563 0.022 0.01 32.03	BBBB
MOTA	4157		ARG		48	-24.408 107.861 1.272 0.01 32.04	BBBB
ATOM	4158		ARG		48	-24.866 106.766 -0.689 0.01 32.01 -18.828 109.543 3.969 1.00 32.06	BBBB BBBB
ATOM ATOM	4159 4160	C	ARG ARG		48 48	-18.828 109.543 3.969 1.00 32.06 -19.180 110.283 4.887 1.00 31.63	BBBB
ATOM	4161	N	ASN		49	-17.597 109.523 3.467 1.00 32.85	BBBB
ATOM	4162	CA	ASN		49	-16.539 110.406 3.931 1.00 32.93	BBBB
ATOM	4163	CB	ASN	В	49	-16.906 111.864 3.670 1.00 35.03	BBBB
MOTA	4164	CG	ASN		49	-16.184 112.430 2.471 1.00 38.34	BBBB
ATOM	4165		. ASN		49	-16.269 113.625 2.182 1.00 42.12	BBBB
ATOM	4166		ASN		49	-15.458 111.573	BBBB BBBB
MOTA MOTA	4167 4168	С 0	ASN ASN		49 49	-16.133 110.260 5.377 1.00 31.90 -15.191 110.920 5.808 1.00 32.59	BBBB
ATOM	4169	И	TYR		50	-16.840 109.433 6.139 1.00 30.16	BBBB
ATOM	4170	CA	TYR		50	-16.453 109.246 7.523 1.00 28.87	BBBB
MOTA	4171	CB	TYR		50	-17.556 108.586 8.325 1.00 30.11	BBBB
MOTA	4172	CG	TYR		50	-18.487 109.566 8.980 1.00 32.04	BBBB
MOTA	4173		TYR		50	-19.395 110.305 8.225 1.00 33.37 -20.278 111.198 8.831 1.00 33.21	BBBB BBBB
ATOM ATOM	4174 4175		L TYR 2 TYR		50 50	-20.278 111.198  8.831  1.00 33.21 -18.476 109.746  10.365  1.00 32.49	BBBB
ATOM	4175		TYF		50	-19.355 110.638 10.980 1.00 33.80	BBBB
ATOM	4177	CZ	TYF		50	-20.254 111.357 10.203 1.00 33.37	BBBB
ATOM	4178		TYF		50	-21.142 112.216 10.794 1.00 33.69	BBBB
MOTA	4179	C	TYF	₹В	50	-15.205 108.387 7.553 1.00 28.22	BBBB
ATOM	4180		TYF		50	-15.059 107.440 6.793 1.00 28.43	BBBB
MOTA	4181		ASI		51	-14.299 108.729 8.447 1.00 27.78 -13.047 108.026 8.550 1.00 27.08	BBBB BBBB
MOTA	4182		ASI		51	-13.047 108.026 8.550 1.00 27.08 -11.976 108.996 9.002 1.00 28.01	BBBB
ATOM ATOM	4183 4184		ASI ASI		51 51	-10.764 108.299 9.516 1.00 30.24	BBBB
ATOM	4185		1 ASI		51	-10.873 107.645 10.569 1.00 30.54	BBBB
ATOM	4186		2 ASI		51	-9.705 108.399 8.865 1.00 32.87	BBBB
ATOM	4187			 P B		-13.057 106.817 9.459 1.00 27.18	BBBB
ATOM	4188		ASI	P B	51	-13.405 106.910 10.628 1.00 27.55	BBBB
ATOM	4189			JB			BBBB
ATOM	4190			JB			BBBB BBBB
ATOM ATOM	4191 4192			JB			BBBB
ATOM	4192		LEV 1 LEV	JB IB			BBBB
ATOM	4194		2 LE				BBBB
ATOM	4195			U B			BBBB

ATOM	4196	0	LEU B	52	-10.761	102.820	9.523	1.00 28.31	BBBB
ATOM	4197	N	SER B	53	-10.246	105.008	9.538	1.00 26.49	BBBB
ATOM	4198	CA	SER B	53	-8.824	104.759	9.502	1.00 25.63	BBBB
ATOM	4199	CB	SER B	53		106.087	9.588	1.00 24.29	BBBB
ATOM	4200	OG	SER B	53		105.887	9.898	1.00 27.15	BBBB
ATOM	4201	С	SER B	53		103.854	10.666	1.00 25.21	BBBB
ATOM	4202	0	SER B	53		102.998	10.519	1.00 24.27	BBBB
ATOM	4203	N	PHE B	54		104.046	11.811	1.00 24.80 1.00 24.59	BBBB BBBB
ATOM	4204 4205	CA CB	PHE B	54 54		103.302	13.044 14.231	1.00 22.80	BBBB
ATOM ATOM	4205	CG	PHE B	54		103.694	14.155	1.00 21.50	BBBB
ATOM	4207	CD1		54		102.438	14.358	1.00 20.89	BBBB
ATOM	4208	CD2	PHE B	54		104.764	13.878	1.00 20.48	BBBB
MOTA	4209	CE1	PHE B	54		102.257	14.286	1.00 20.75	BBBB
ATOM	4210	CE2	PHE B	54	-13.274	104.589	13.805	1.00 21.20	BBBB
ATOM	4211	CZ	PHE B	54	-13.828	103.332	14.009	1.00 21.35	BBBB
ATOM	4212	С	PHE B	54		101.813	12.998	1.00 25.40	BBBB
MOTA	4213	0	PHE B	54		101.100	13.947	1.00 26.54	BBBB
ATOM	4214	N	LEU B	55		101.342	11.904	1.00 25.48	BBBB
ATOM	4215	CA	LEU B	55	-9.969 -11.084	99.929 99.771	11.763 10.734	1.00 24.96 1.00 22.81	BBBB BBBB
ATOM ATOM	4216 4217	CB CG	LEU B	55 55	-12.444	99.273	11.206	1.00 21.86	BBBB
ATOM	4217		LEU B	55	-12.604	99.549	12.678	1.00 23.71	BBBB
ATOM	4219		LEU B	55	-13.539	99.937	10.401	1.00 19.67	BBBB
ATOM	4220	C	LEU B	55	-8.780	99.068	11.364	1.00 24.83	BBBB
ATOM	4221	ō	LEU B	55	-8.883	97.851	11.323	1.00 25.48	BBBB
ATOM	4222	N	LYS B	56	-7.641	99.693	11.115	1.00 25.06	BBBB
MOTA	4223	CA	LYS B	56	-6.478	98.956	10.666	1.00 26.71	BBBB
MOTA	4224	CB	LYS B	56	-5.500	99.909	9.985	1.00 28.32	BBBB
ATOM	4225	CG	LYS B	56		100.614	8.753	1.00 28.59	BBBB
ATOM	4226	CD	LYS B	56	-5.067		8.231	1.00 31.13	BBBB
ATOM	4227	CE	LYS B	56		102.612	7.261 7.059	1.00 34.39 1.00 35.67	BBBB BBBB
ATOM ATOM	4228 4229	NZ C	LYS B	56 56	-4.812 -5.746	103.810 98.099	11.678	1.00 33.67	BBBB
ATOM	4229	o	LYS B	56	-4.871	97.330	11.299	1.00 25.94	BBBB
ATOM	4231	N	THR B	57	-6.084	98.210	12.958	1.00 29.61	BBBB
ATOM	4232	CA	THR B	57	-5.412	97.361	13.946	1.00 31.11	BBBB
ATOM	4233	CB	THR B	57	-5.150	98.110	15.283	1.00 31.39	BBBB
ATOM	4234	OG1	THR B	57	-6.302	98.867	15.667	1.00 33.84	BBBB
ATOM	4235	CG2	THR B	57	-3.966	99.033	15.133	1.00 31.02	BBBB
MOTA	4236	С	THR B	57	-6.132	96.024	14.220	1.00 31.29	BBBB
ATOM	4237	0	THR B	57	-5.476	95.023	14.541	1.00 31.45	BBBB
ATOM	4238	N	ILE B	58	-7.461	96.003 94.780	14.079 14.289	1.00 29.64 1.00 29.43	BBBB BBBB
ATOM ATOM	4239 4240	CA CB	ILE B	58 58	-8.240 	94.780	13.680	1.00 29.43	BBBB
ATOM	4240	CG2		58	-10.355	93.543	13.766	1.00 27.93	. BBBB
ATOM	4242			58	-10.406	96.033	14.355	1.00 31.18	BBBB
ATOM	4243		ILE B	58	-11.489	95.582	15.314	1.00 31.99	BBBB
MOTA	4244	С	ILE B	58	-7.569	93.594	13.608	1.00 29.47	BBBB
MOTA	4245	0	ILE B	58	-7.569	93.509	12.391	1.00 30.57	BBBB
ATOM	4246	N	GLN B	59	-7.012	92.668	14.379	1.00 29.50	BBBB
ATOM	4247	CA	GLN B	59	-6.342	91.508	13.789	1.00 28.94	BBBB
ATOM	4248	CB	GLN B	59	-4.940		14.371	1.00 28.94 1.00 29.91	BBBB BBBB
ATOM	4249	CG	GLN B	59 59	-4.112 -2.876	92.607 92.766	13.981 14.821	1.00 23.31	BBBB
ATOM ATOM	4250 4251	CD OF 1	GLN B	59	-2.135		15.055	1.00 32.11	BBBB
ATOM	4252		GLN B	59	-2.632	93.990	15.274	1.00 32.32	BBBB
ATOM	4253	C	GLN B	59	-7.100		13.919	1.00 27.97	BBBB
ATOM	4254	Ō	GLN B	59	-6.989		13.055	1.00 27.31	BBBB
ATOM	4255	N	GLU B	60	-7.872	90.020	14.991	1.00 26.91	BBBB
ATOM	4256	CA	GLU B	60	-8.669		15.190	1.00 26.01	BBBB
ATOM	4257	CB	GLU B	60	-8.098		16.291	1.00 26.68	BBBB
MOTA	4258	CG	GLU B	60	-6.637	87.617	16.224	1.00 26.79	BBBB
ATOM	4259	CD	GLU B	60	-6.240		17.380	1.00 27.26	BBBB BBBB
ATOM	4260		GLU B	60	-5.026		17.572	1.00 25.83 1.00 24.77	BBBB
ATOM	4261 4262	C C	GLU B GLU B	60 60	-7.169 -10.070		18.091 15.623	1.00 24.77	BBBB
ATOM ATOM	4262	0	GLU B	60	-10.070		16.169	1.00 25.06	BBBB
ATOM	4263	N	VAL B	61	-11.038		15.386	1.00 22.07	BBBB
ATOM	4265	CA	VAL B	61	-12.410		15.783	1.00 20.80	BBB <b>B</b>
ATOM	4266	CB	VAL B	61	-13.249		14.652	1.00 19.27	BBBB
MOTA	4267		VAL B	61	-14.703	89.157	15.040	1.00 18.41	BBBB
ATOM	4268		VAL B	61			14.363	1.00 19.40	BBBB
MOTA	4269	С	VAL B	61	-12.955		16.154	1.00 21.79	BBBB
ATOM	4270	0	VAL B	61	-13.102	86.385	15.294	1.00 21.96	BBBB

MOTA	4271	N	ALA	В	62	-13.246	87.096	17.442	1.00 20.58	BBBB
ATOM	4272	CA	ALA		62	-13.729	85.832	17.946	1.00 19.45	BBBB
ATOM	4273	CB	ALA		62	-13.605	85.824	19.426	1.00 20.44	BBBB
ATOM	4274	C	ALA		62	-15.151	85.518	17.519	1.00 19.88	BBBB
ATOM	4275	0	ALA		62	-15.495	84.363	17.272	1.00 19.28	BBBB
ATOM	4276	N	GLY		63	-15.978	86.548	17.430	1.00 19.97	BBBB
ATOM	4277	CA	GLY		63	-17.348	86.345	17.004	1.00 20.79	BBBB
ATOM	4278	C	GLY		63	-17.446	86.461	15.494	1.00 21.56	BBBB
ATOM	4279	0	GLY		63	-16.535	86.045	14.763	1.00 21.30	BBBB
ATOM	4280	И	TYR		64	-18.549	87.039	15.023	1.00 21.48	BBBB
ATOM	4281	CA	TYR		64			13.598		
	4282	CB				-18.777	87.215 86.844		1.00 18.55	BBBB
ATOM			TYR		64	-20.227		13.258	1.00 17.60	BBBB
ATOM	4283	CG	TYR		64	-21.268	87.692	13.942	1.00 16.75	BBBB
ATOM	4284	CD1	TYR		64	-21.383	89.055	13.658	1.00 16.16	BBBB
ATOM	4285	CE1	TYR		64	-22.296	89.854	14.321	1.00 16.19	BBBB
ATOM	4286	CD2	TYR		64	-22.108	87.146	14.906	1.00 15.85	BBBB
ATOM	4287	CE2	TYR		64	-23.031	87.937	15.582	1.00 15.55	BBBB
ATOM	4288	CZ	TYR		64	-23.114	89.293	15.285	1.00 17.26	BBBB
ATOM	4289	OH	TYR		64	-23.978	90.097	15.984	1.00 19.90	BBBB
ATOM	4290	С	TYR		64	-18.462	88.652	13.184	1.00 18.53	BBBB
MOTA	4291	0	TYR		64	-18.371	89.526	14.033	1.00 18.65	BBBB
MOTA	4292	И	VAL	В	65	-18.290	88.885	11.882	1.00 18.60	BBBB
ATOM	4293	CA	VAL	В	65	-17.977	90.217	11.370	1.00 18.87	BBBB
ATOM	4294	CB	VAL	В	65	-16.652	90.200	10.629	1.00 16.01	BBBB
ATOM	4295	CG1	VAL	В	65	-16.099	91.591	10.531	1.00 16.99	BBBB
ATOM	4296	CG2	VAL	В	65	-15.700	89.312	11.333	1.00 16.38	BBBB
ATOM	4297	C	VAL	В	65	-19.046	90.806	10.430	1.00 19.67	BBBB
ATOM	4298	0	VAL	В	65	-18.969	90.649	9.222	1.00 20.93	BBBB
ATOM	4299	N	LEU	В	66	-20.009	91.528	10.996	1.00 20.30	BBBB
ATOM	4300	CA	LEU	В	66	-21.098	92.140	10.238	1.00 19.97	BBBB
ATOM	4301	CB	LEU	В	66	-22.342	92.267	11.099	1.00 17.98	BBBB
ATOM	4302	CG	LEU	В	66	-23.620	92.538	10.322	1.00 16.54	BBBB
ATOM	4303	CD1	LEU	В	66	-24.075	91.261	9.690	1.00 15.00	BBBB
ATOM	4304	CD2	LEU	в	66	-24.695	93.046	11.241	1.00 17.15	BBBB
ATOM	4305	C	LEU		66	-20.835	93.519	9.691	1.00 20.11	BBBB
ATOM	4306	ō	LEU		66	-20.629	94.438	10.455	1.00 18.63	BBBB
ATOM	4307	N	ILE		67	-20.875	93.667	8.367	1.00 22.07	BBBB
ATOM	4308	CA	ILE		67	-20.715	94.976	7.733	1.00 22.04	BBBB
ATOM	4309	CB	ILE		67	-19.515	95.000	6.827	1.00 20.69	BBBB
ATOM	4310		ILE		67	-19.354	96.394	6.274	1.00 22.62	BBBB
ATOM	4311		ILE		67	-18.277	94.571	7.611	1.00 22.94	BBBB
ATOM	4312	CD1			67	-16.949	94.759	6.884	1.00 21.84	BBBB
ATOM	4313	C	ILE		67	-21.975	95.272	6.902	1.00 21.25	BBBB
ATOM	4314	ŏ	ILE		67	-22.034	94.890	5.747	1.00 21.29	BBBB
ATOM	4315	N	ALA		68	-22.962	95.966	7.477	1.00 21.62	BBBB
ATOM	4316	CA	ALA		68	-24.231	96.222	6.779	1.00 23.88	BBBB
ATOM	4317	CB	ALA		68	-25.246	95.151	7.192	1.00 23.88	BBBB
ATOM	4318	C	ALA		68	-24.909	97.592	6.875	1.00 23.45	BBBB
ATOM		o					98.155		1.00 25.43	
ATOM	4319 4320	N	ALA LEU		68 69	-25.067 -25.348	98.092	7.955 5.728	1.00 22.26	BBBB
ATOM	4321	CA	LEU		69	-26.038	99.372	5.627	1.00 22.20	BBBB
ATOM	4321	CB	LEU		69	-27.151	99.457	6.674	1.00 20.98	BBBB
ATOM	4323	CG	LEU		69	-28.260	98.434	6.413	1.00 20.30	BBBB
ATOM	4323		LEU		69	-29.309	98.425	7.502	1.00 19.03	BBBB
			LEU				98.775			
MOTA	4325				69	-28.877		5.104	1.00 19.83	BBBB
ATOM	4326	C	LEU		69		100.623	5.689	1.00 23.47	
ATOM	4327	0	LEU		69		101.692	6.004	1.00 23.15	BBBB
ATOM	4328	N	ASN		70		100.501	5.361	1.00 25.86	BBBB
ATOM	4329	CA	ASN		70		101.655	5.383	1.00 28.49	BBBB
ATOM	4330	CB	ASN		70		101.292	5.911	1.00 30.30	BBBB
ATOM	4331	CG	ASN		70		100.406	7.116	1.00 30.50	BBBB
ATOM	4332		ASN		70		100.430	7.931	1.00 30.60	BBBB
ATOM	4333		ASN		70	-22.684	99.596	7.229	1.00 31.47	BBBB
ATOM	4334	С	ASN		70		102.162	3.964	1.00 29.60	BBBB
ATOM	4335	0	ASN		70		101.430	3.013	1.00 30.55	BBBB
ATOM	4336	N	THR		71		103.407	3.821	1.00 30.06	BBBB
MOTA	4337	CA	THR		71		103.970	2.496	1.00 29.40	BBBB
ATOM	4338	CB	THR		71		105.051	2.161	1.00 28.17	BBBB
ATOM	4339		THR		71		106.181	3.014	1.00 27.66	BBBB
MOTA	4340	CG2	THR		71		104.515	2.372	1.00 28.17	BBBB
ATOM	4341	С	THE		71		104.571	2.439	1.00 29.79	BBBB
ATOM	4342	0	THE		71	-20.377	105.196	1.463	1.00 30.53	BBBB
MOTA	4343	N	VAL	В	72	-19.975	104.351	3.494	1.00 29.86	BBBB
MOTA	4344	CA	VAL		72	-18.611	104.858	3.603	1.00 31.00	BBBB
MOTA	4345	CB	VAI	, В	72	-17.892	104.246	4.799	1.00 29.82	BBBB

ATOM	4346	CG1	VAL B	72	-17.257	105.349	5.632	1.00 27.41	BBBB
						103.373	5.597	1.00 29.35	BBBB
ATOM	4347		VAL B						
ATOM	4348	С	VAL B	72	-17.676	104.668	2.407	1.00 32.70	BBBB
MOTA	4349	0	VAL B	72	-16.618	105.283	2.352	1.00 35.16	BBBB
						103.811	1.464	1.00 33.41	BBBB
ATOM	4350	N	GLU B						
MOTA	4351	CA	GLU B	73	-17.166	103.606	0.302	1.00 35.17	BBBB
ATOM	4352	CB	GLU B	73	-16.788	104.952	-0.329	1.00 36.45	BBBB
ATOM	4353	CG	GLU B	73	-18.002	105.783	-0.737	1.00 39.32	BBBB
ATOM	4354	CD	GLU B	73	-17.748	106.644	-1.955	1.00 41.38	BBBB
ATOM	4355	OF1	GLU B	73	-18 720	107.270	-2.439	1.00 39.74	BBBB
MOTA	4356	OE2	GLU B	73	-16.581	106.685	-2.423	1.00 43.08	BBBB
ATOM	4357	С	GLU B	73	-15.896	102.795	0.565	1.00 34.57	BBBB
	4358	ō	GLU B	-		102.069	-0.321	1.00 35.13	BBBB
MOTA									
ATOM	4359	N	ARG B	74	-15.327	102.912	1.762	1.00 32.24	BBBB
ATOM	4360	CA	ARG B	74	-14.126	102.143	2.088	1.00 30.68	BBBB
								1.00 31.93	BBBB
ATOM	4361	CB	ARG B			102.875	1.603		
ATOM	4362	CG	ARG B	74	-11.567	102.229	2.004	1.00 33.30	BBBB
ATOM	4363	CD	ARG B	74	-10 432	103.109	1.522	1.00 34.90	BBBB
MOTA	4364	NE	ARG B	74	-9.164	102.831	2.180	1.00 37.64	BBBB
ATOM	4365	CZ	ARG B	74	-8.459	101.717	2.021	1.00 39.71	BBBB
ATOM	4366		ARG B			100.757	1.218	1.00 39.94	BBBB
ATOM	4367	NH2	ARG E	74	-7.298	101.574	2.657	1.00 40.39	BBBB
MOTA	4368	C	ARG B	74	-13.970	101.791	3.571	1.00 29.18	BBBB
ATOM	4369	0	ARG E		_13 967	102.659	4.437	1.00 29.36	BBBB
ATOM	4370	N	ILE B	75	-13.825	100.496	3.832	1.00 26.27	BBBB
ATOM	4371	CA	ILE B	.75	-13.676	99.951	5.163	1.00 23.00	BBBB
	4372						5.428	1.00 22.40	BBBB
MOTA		CB	ILE B		-14.792				
ATOM	4373	CG2	ILE B	75	-14.738	98.516	6.868	1.00 23.60	BBBB
ATOM	4374	CG1	ILE B	75	-16.119	99.658	5.085	1.00 21.89	BBBB
									BBBB
ATOM	4375	CDI	ILE B		-17.352		5.353	1.00 19.46	
MOTA	4376	C	ILE E	75	-12.356	99.207	5.233	1.00 22.75	BBBB
ATOM	4377	0	ILE B	75	-12.330	97.994	5.120	1.00 23.28	BBBB
MOTA	4378	N	PRO E	76	-11.245	99.928	5.453	1.00 22.63	BBBB
ATOM	4379	CD	PRO E	76	-11.305	101.342	5.861	1.00 23.05	BBBB
ATOM	4380	CA	PRO E	76	-9.862	99.447	5.547	1.00 23.63	BBBB
ATOM	4381	CB	PRO E	76	-9.075	100.733	5.766	1.00 23.09	BBBB
ATOM	4382	CG	PRO E	76	-10.007	101.516	6.616	1.00 22.65	BBBB
ATOM	4383	С	PRO E		-9.470		6.573	1.00 24.83	BBBB
ATOM	4384	0	PRO E	76	-8.460	98.559	7.253	1.00 25.80	BBBB
ATOM	4385	N	LEU E	3 77	-10.237	97.318	6.699	1.00 25.49	BBBB
ATOM	4386	CA	LEU E		-9.867		7.638	1.00 25.80	BBBB
ATOM	4387	CB	LEU E	3 77	-11.047	95.315	7.857	1.00 23.85	BBBB
ATOM	4388	CG	LEU E	3 77	-12.291	95.815	8.589	1.00 23.52	BBBB
							8.485	1.00 24.91	BBBB
ATOM	4389		LEU E		-13.399				
ATOM	4390	CD2	LEU E	3 77	-11.961	96.077	10.043	1.00 22.54	BBBB
ATOM	4391	С	LEU E	3 77	-8.695	95.492	7.004	1.00 27.15	BBBB
					-8.817		6.711	1.00 28.72	BBBB
ATOM	4392	0	LEU E						
ATOM	4393	N	GLU E	3 78	-7.557	96.146	6.809	1.00 28.42	BBBB
ATOM	4394	CA	GLU E	3 78	-6.423	95.497	6.161	1.00 30.59	BBBB
					-5.677		5.296	1.00 31.81	BBBB
MOTA	4395	CB	GLU E						
ATOM	4396	CG	GLU E	3 78	~5.256	97.814	5.967	1.00 31.66	BBBB
ATOM	4397	CD	GLU E	3 78	-5.512	99.010	5.066	1.00 33.32	BBBB
					-4.733		5.106	1.00 34.43	BBBB
MOTA	4398		GLU E						
MOTA	4399	OE2	GLU E	3 78	-6.512	98.967	4.318	1.00 31.90	BBBB
ATOM	4400	С	GLU E	3 78	-5.413	94.675	6.977	1.00 31.65	BBBB
					-4.322		6.485	1.00 30.37	BBBB
MOTA	4401	0	GLU E						
ATOM	4402	N	ASN E	3 79	-5.769	94.322	8.208	1.00 32.04	BBBB
ATOM	4403	CA	ASN E	3 79	-4.870	93.512	9.010	1.00 31.26	BBBB
								1.00 34.31	BBBB
MOTA	4404	СВ	ASN E		-4.149		10.020		
ATOM	4405	ÇG	ASN E	3 79	-3.245	95.386	9.352	1.00 36.48	BBBB
ATOM	4406	OD1	ASN E	3 79	-2.443	95.034	8.490	1.00 38.45	BBBB
							9.742	1.00 37.71	BBBB
ATOM	4407		ASN E		-3.370				
MOTA	4408	С	ASN E	3 79	-5.584	92.362	9.681	1.00 30.06	BBBB
ATOM	4409	0	ASN E	3 79	-4.948	91.495	10.258	1.00 30.52	BBBB
		N	LEU E		-6.909		9.585	1.00 28.58	BBBB
ATOM	4410								
ATOM	4411	CA	LEU E	80	-7.750	91.308	10.124	1.00 28.20	BBBB
ATOM	4412	CB	LEU E	80	-9.199	91.553	9.696	1.00 24.82	BBBB
							9.909	1.00 22.74	BBBB
ATOM	4413	CG	LEU E		-10.233			1.00 22.14	
ATOM	4414	CD1	LEU E	80	-10.339	90.171	11.395	1.00 24.38	BBBB
ATOM	4415	CD2	LEU E	80	-11.576	90.864	9.348	1.00 19.62	BBBB
								1.00 31.02	BBBB
ATOM	4416	C	LEU E		-7.243		9.513		
ATOM	4417	0	LEU E	80	-7.055	89.925	8.299	1.00 31.65	BBBB
MOTA	4418	N	GLN E	81	-7.023	88.971	10.334	1.00 32.80	BBBB
								1.00 34.53	BBBB
MOTA	4419	CA	GLN E		-6.519		9.831	1.00 34.03	
MOTA	4420	CB	GLN E	81	-5.209	87.334	10.507	1.00 36.99	BBBB

ATOM	4421	CG	GLN	В	81	-4.139	88.340	10.307	1.00 42.64	BBBB
ATOM	4422		GLN		81	-2.799	87.752	10.588	1.00 46.18	BBBB
MOTA	4423	OE1	GLN	В	81	-2.530	87.301	11.703	1.00 48.30	BBBB
ATOM	4424	NE2	GLN	В	81	-1.939	87.735	9.573	1.00 47.89	BBBB
MOTA	4425	С	GLN	В	81	-7.455	86.506	10.006	1.00 34.71	BBBB
MOTA	4426	0	GLN	В	81	-7.643	85.705	9.088	1.00 35.21	BBBB
ATOM	4427	N	ILE		82	-8.015	86.384	11.203	1.00 33.86	BBBB
MOTA	4428	CA	ILE		82	-8.913	85.292	11.508	1.00 32.31	BBBB
ATOM	4429	СВ	ILE		82	-8.283	84.356	12.555	1.00 34.71	BBBB
ATOM	4430		ILE		82	-9.188	83.147	12.829	1.00 36.06	BBBB
ATOM	4431		ILE		82	-6.944	83.862	12.030	1.00 36.99	BBBB
ATOM	4432		ILE		82	-7.044	83.227	10.637	1.00 40.63	BBBB
ATOM	4433	C	ILE		82	-10.234	85.786	12.035	1.00 29.88	BBBB
ATOM	4434	0	ILE		82	-10.323	86.842	12.636 11.775	1.00 29.23 1.00 28.33	BBBB BBBB
ATOM ATOM	4435 4436	N CA	ILE		83 83	-11.265 -12.598	85.007 85.293	12.253	1.00 28.33	BBBB
ATOM	4437	CB	ILE		83	-13.521	85.768	11.102	1.00 26.03	BBBB
ATOM	4437		ILE		83	-14.973	85.686	11.512	1.00 20.03	BBBB
ATOM	4439		ILE		83	-13.151	87.205	10.726	1.00 24.48	BBBB
ATOM	4440		ILE		83	-13.696	87.674	9.409	1.00 24.24	BBBB
ATOM	4441	C	ILE		83	-12.992	83.925	12.771	1.00 30.19	BBBB
ATOM	4442	ō	ILE		83	-13.372	83.054	11.998	1.00 31.26	BBBB
ATOM	4443	N	ARG		84	-12.859	83.742	14.085	1.00 31.66	BBBB
ATOM	4444	CA	ARG		84	-13.145	82.474	14.754	1.00 32.51	BBBB
ATOM	4445	CB	ARG		84	-12.712	82.580	16.216	1.00 32.08	BBBB
ATOM	4446	CG	ARG		84	-11.224	82.889	16.387	1.00 32.01	BBBB
ATOM	4447	CD	ARG		84	-10.807	83.065	17.859	1.00 31.34	BBBB
MOTA	4448	NE	ARG	В	84	-9.402	83.443	17.935	1.00 29.09	BBBB
ATOM	4449	CZ	ARG	В	84	-8.398	82.593	17.771	1.00 29.02	BBBB
MOTA	4450	NH1	ARG	В	84	-8.651	81.317	17.548	1.00 30.40	BBBB
ATOM	4451	NH2	ARG	В	84	-7.147	83.027	17.756	1.00 28.44	BBBB
MOTA	4452	С	ARG	₿	84	-14.579	81.933	14.671	1.00 33.97	BBBB
ATOM	4453	0	ARG	В	84	-14.825	80.774	14.987	1.00 34.87	BBBB
ATOM	4454	N	GLY		85	-15.522	82.763	14.252	1.00 35.29	BBBB
ATOM	4455	CA	GLY		85	-16.892	82.307	14.139	1.00 36.57	BBBB
ATOM	4456	С	GLY		85	-17.435	81.605	15.365	1.00 37.92	BBBB
MOTA	4457	0	GLY		85	-18.178	80.633	15.248	1.00 36.65	BBBB
ATOM	4458	N	ASN		86	-17.072	82.093	16.548	1.00 40.91	BBBB
ATOM	4459	CA	ASN		86	-17.558	81.495	17.792	1.00 43.24	BBBB BBBB
MOTA	4460 4461	CB CG	ASN ASN		86 86	-16.755 -15.354	81.993 81.452	18.990 19.007	1.00 43.81 1.00 46.15	BBBB
ATOM ATOM	4461		ASN		86	-15.141	80.242	18.854	1.00 47.38	BBBB
MOTA	4463		ASN		86	-14.382	82.336	19.197	1.00 45.97	BBBB
MOTA	4464	C	ASN		86	-19.010	81.857	17.990	1.00 43.88	BBBB
ATOM	4465	Ö	ASN		86	-19.636	81.448	18.959	1.00 43.31	BBBB
ATOM	4466	N	MET		87	-19.526	82.647	17.057	1.00 46.19	BBBB
MOTA	4467	CA	MET		87	-20.907	83.095	17.085	1.00 47.55	BBBB
MOTA	4468	CB	MET		87	-21.076	84.209	18.116	1.00 49.30	BBBB
ATOM	4469	CG	MET	В	87	-22.477	84.319	18.703	1.00 53.00	BBBB
ATOM	4470	SD	MET		87	-22.622	85.712	19.846	1.00 58.13	BBBB
ATOM	4471	CE	MET	В	87	-21.027	85.556	20.764	1.00 56.33	BBBB
ATOM	4472	С	MET	В	87	-21.245	83.600	15.686	1.00 46.85	BBBB
ATOM	4473	0	MET	В	87	-20.521	84.410	15.114	1.00 46.81	BBBB
ATOM	4474	N	TYR	В	88	-22.345	83.102	15.139	1.00 46.07	BBBB
ATOM	4475	CA	TYR		88	-22.778	83.478	13.804	1.00 45.70	BBBB
MOTA	4476	CB	TYR		88	-23.446	82.305	13.088	1.00 45.54	BBBB
ATOM	4477	CG	TYR		88	-22.656	81.034	13.044	1.00 43.37	BBBB
ATOM	4478		TYR		88	-23.253	79.850	12.627	1.00 42.66	BBBB
ATOM	4479		TYR		88	-22.541	78.665	12.584	1.00 41.79	BBBB
ATOM	4480		TYR		88	-21.318	81.004	13.417	1.00 42.77	BBBB
ATOM	4481		TYR		88	-20.598	79.825	13.376	1.00 42.45	BBBB BBBB
MOTA	4482	CZ	TYR		88	-21.216	78.657	12.959 12.919	1.00 40.86	BBBB
MOTA	4483	ОН	TYR TYR		88 88	-20.507 -23.797	77.483 84.582		1.00 45.65	BBBB
ATOM	4484	С			88	-24.493	84.783	14.837	1.00 45.59	BBBB
ATOM ATOM	4485 4486	O N	TYR TYR		89	-23.889	85.280	12.720	1.00 45.33	BBBB
ATOM	4487	CA	TYR		89	-24.869	86.327	12.720	1.00 46.09	BBBB
ATOM	4488	CB	TYR		89	-24.357	87.378		1.00 44.37	BBBB
ATOM	4489	CG	TYR		89	-25.439	88.314	11.139	1.00 43.69	BBBB
ATOM	4490		TYR		89	-26.070	89.146		1.00 43.85	BBBB
ATOM	4491		TYR		89	-27.129	89.962		1.00 43.97	BBBB
ATOM	4492		TYR		89	-25.885	88.322		1.00 42.50	BBBB
ATOM	4493		TYR		89		89.132			BBBB
ATOM	4494	CZ	TYR		89	-27.558	89.948	10.361	1.00 43.56	BBBB
MOTA	4495	ОН	TYR	В	89	-28.613	90.740	9.982	1.00 42.96	BBBB

ATOM	4496	С	TYR	В	89	-26.097	85.613	11.980	1.00 47.01	BBBB
ATOM	4497	ō	TYR		89	-25.997	84.911	10.973	1.00 46.04	BBBB
ATOM	4498	N	GLU		90	-27.248	85.761	12.630	1.00 49.08	BBBB
ATOM	4499	CA	GLU		90	-28.462	85.103	12.151	1.00 51.04	BBBB
ATOM	4500	СВ	GLU		90	-28.944	85.787	10.859	1.00 53.53	BBBB
ATOM	4501	CG	GLU		90	-30.421	86.181	10.866	1.00 56.98	BBBB
ATOM	4502	CD	GLU		90	-30.814	86.973	12.110	1.00 59.48	BBBB
ATOM	4503	OE1			90	-30.609	88.209	12.144	1.00 59.94	BBBB
ATOM	4504	OE2			90	-31.319	86.345	13.066	1.00 60.61	BBBB
MOTA	4505	C	GLU		90	-28.114	83.632	11.892	1.00 50.83	BBBB
ATOM	4506	ō	GLU		90	-28.396	83.088	10.822	1.00 50.69	BBBB
ATOM	4507	N	ASN		91	-27.499	83.008	12.900	1.00 50.56	BBBB
ATOM	4508	CA	ASN		91	-27.039	81.610	12.872	1.00 48.83	BBBB
ATOM	4509	CB	ASN		91	-27.982	80.711	13.686	1.00 49.20	BBBB
ATOM	4510	CG	ASN		91	-29.435	80.864	13.293	1.00 49.60	BBBB
ATOM	4511	OD1			91	-30.318	80.323	13.956	1.00 51.32	BBBB
ATOM	4512	ND2			91	-29.694	81.594	12.217	1.00 48.50	BBBB
ATOM	4513	C	ASN		91	-26.813	81.014	11.487	1.00 46.90	BBBB
ATOM	4514	0	ASN		91	-27.704	80.397	10.909	1.00 46.09	BBBB
ATOM	4515	N	SER		92	-25.600	81.195	10.974	1.00 44.64	BBBB
ATOM	4516	CA	SER		92	-25.246	80.692	9.654	1.00 42.53	BBBB
		CB	SER		92	-26.373	81.028	8.669	1.00 43.20	BBBB
ATOM	4517		SER		92	-26.111	80.527	7.371	1.00 44.97	BBBB
ATOM	4518	oG			92	-23.917	81.267	9.134	1.00 40.48	BBBB
ATOM	4519	C	SER				80.528	8.734	1.00 40.06	BBBB
ATOM	4520	0	SER		92	-23.022	82.587	9.166	1.00 37.87	BBBB
ATOM	4521	N	TYR		93	-23.783	83.235	8.654	1.00 37.07	BBBB
ATOM	4522	CA	TYR		93	-22.586		7.620	1.00 35.28	BBBB
ATOM	4523	CB	TYR		93	-23.014	84.277	6.652	1.00 35.20	BBBB
ATOM	4524	CG	TYR		93	-24.075	83.788		1.00 36.78	BBBB
ATOM	4525		TYR		93	-25.433	83.943	6.931 6.045	1.00 38.78	BBBB
ATOM	4526	CE1			93	-26.410	83.499		1.00 37.22	BBBB
ATOM	4527		TYR		93	-23.721	83.173	5.460 4.563	1.00 38.63	BBBB
ATOM	4528		TYR		93	-24.689	82.727		1.00 38.03	BBBB
ATOM	4529	CZ	TYR		93	-26.028	82.893	4.863	1.00 40.90	BBBB
ATOM	4530	ОН	TYR		93	-26.975	82.453	3.970	1.00 31.78	BBBB
MOTA	4531	С	TYR		93	-21.653	83.882	9.690	1.00 31.78	BBBB
ATOM	4532	0	TYR		93	-22.108	84.504	10.629	1.00 31.01	BBBB
ATOM	4533	N	ALA		94	-20.346	83.734	9.497	1.00 26.34	BBBB
ATOM	4534	CA	ALA		94	-19.351	84.311	10.381	1.00 24.88	BBBB
MOTA	4535	CB	ALA		94	-18.146	83.410	9.848	1.00 27.81	BBBB
ATOM	4536	С	ALA		94	-18.951	85.694	10.594	1.00 27.01	BBBB
ATOM	4537	0	ALA		94	-18.506	86.566	8.539	1.00 28.28	BBBB
ATOM	4538	N	LEU		95	-19.102	85.879 87.147	7.858	1.00 28.50	BBBB
ATOM	4539	CA	LEU		95	-18.800	86.979	6.894	1.00 27.11	BBBB
ATOM	4540	CB	LEU		95	-17.614	88.138	5.948	1.00 27.11	BBBB
ATOM	4541	CG	LEU		95	-17.301	89.381	6.764	1.00 27.81	BBBB
ATOM	4542		LEU		95	-17.073	87.832	5.115	1.00 27.01	BBBB
ATOM	4543		LEU		95	-16.075	87.473	7.071	1.00 28.00	BBBB
ATOM	4544	C	LEU		95	-20.060		6.338	1.00 29.39	BBBB
ATOM	4545	0	LEU		95	-20.556	86.622 88.678	7.221	1.00 25.55	BBBB
ATOM	4546	N	ALA		96	-20.595		6.497	1.00 25.96	BBBB
ATOM	4547	CA	ALA		96	-21.812	89.022	7.263	1.00 23.90	BBBB
ATOM	4548	CB	ALA		96		88.545 90.494	6.172	1.00 21.38	BBBB
ATOM	4549	C	ALA		96	-21.964			1.00 25.27	BBBB
MOTA	4550	0	ALA		96	-22.398	91.269	7.021 4.936	1.00 28.19	BBBB
ATOM	4551	N	VAL		97	-21.605	90.864	4.447	1.00 29.87	BBBB
ATOM	4552	CA	VAL		97	-21.735	92.242		1.00 30.05	BBBB
ATOM	4553	CB	VAL		97	-20.523	92.638	3.530 3.927	1.00 30.03	BBBB
ATOM	4554		VAL		97	-19.291	91.835		1.00 30.18	BBBB
ATOM	4555		VAL		97	-20.848	92.449	2.072		BBBB
ATOM	4556	С	VAL		97	-23.084	92.310	3.698	1.00 29.37	BBBB
ATOM	4557	0	VAI		97	-23.327	91.539	2.781	1.00 29.28	BBBB
MOTA	4558	N	LEU		98	-23.959	93.228	4.100		
MOTA	4559	CA	LEU		98	-25.297	93.310	3.517	1.00 31.06	BBBB
MOTA	4560	CB	LEU		98	-26.283	92.666	4.483		BBBB
ATOM	4561	CG	LEU		98	-25.781	91.362	5.084	1.00 26.62	BBBB
MOTA	4562		LEL		98	-26.578	90.993	6.313		BBBB
ATOM	4563		LEU		98	-25.871	90.296	4.025		BBBB
ATOM	4564	С	LEU		98	-25.830	94.694	3.168		BBBB
MOTA	4565	0	LEU		98	-25.754	,	3.976		BBBB
MOTA	4566	N	SEF		99	-26.409	94.805	1.972		BBBB
MOTA	4567	CA	SEF		99	-27.020	96.029	1.426		BBBB
MOTA	4568	CB	SEF		99	-28.524	96.043	1.721		BBBB
ATOM	4569	OG		₹В		-28.790	96.059	3.111		BBBB
ATOM	4570	С	SEF	Я В	99	-26.424	97.353	1.854	1.00 34.63	BBBB

ATOM	4571	0	SER E	3 99	-26.972	98.046	2.703	1.00 33.28	BBBB
ATOM	4572	N	ASN E	3 100	-25.327	97.720	1.211	1.00 36.53	BBBB
ATOM	4573	CA	ASN E	3 100	-24.621	98.948	1.522	1.00 39.81	BBBB
ATOM	4574	CB	ACM E	3 100	-23.150	98.606	1.659	1.00 39.99	BBBB
ATOM	4575	CG	ASN E	3 100	-22.917	97.458	2.623	1.00 40.53	BBBB
MOTA	4576	OD1	ASN E	3 100	-23.069	97.615	3.835	1.00 41.99	BBBB
ATOM	4577		ASN E		-22.560	96.294	2.088		
								1.00 38.68	BBBB
ATOM	4578	С	ASN E	3 100	-24.816	100.028	0.459	1.00 42.46	BBBB
ATOM	4579	0	ASN E	3 100	-23.896	100.295	-0.322	1.00 42.49	BBBB
ATOM	4580	N	TYR E			100.671			
							0.459	1.00 45.26	BBBB
MOTA	4581	CA	TYR E	3 101	-26.320	101.696	-0.539	1.00 48.73	BBBB
ATOM	4582	CB	TYR E	3 101	-26.584	101.006	-1.875	1.00 49.01	BBBB
ATOM	4583	CG							
				3 101		100.077	-1.804	1.00 49.09	BBBB
ATOM	4584	CD1	TYR E	3 101	-29.081	100.563	-1.948	1.00 49.20	BBBB
ATOM	4585	CE1	TYR F	3 101	-30.191	99.726	-1.775	1.00 49.73	BBBB
ATOM	4586		TYR E		-27.613				
						98.727	-1.496	1.00 49.51	BBBB
ATOM	4587		TYR E	3 101	-28.716	97.881	-1.323	1.00 50.17	BBBB
ATOM	4588	CZ	TYR E	3 101	-29.999	98.387	-1.459	1.00 50.12	BBBB
ATOM	4589	ОН		3 101	-31.080	97.563	-1.244	1.00 50.04	BBBB
ATOM	4590	С		3 101	-27.557	102.544	-0.213	1.00 50.98	BBBB
MOTA	459 <u>1</u>	0	TYR E	3 101	-28.098	102.489	0.891	1.00 50.92	BBBB
MOTA	4592	N	ASP F	3 102	-27, 983	103.309	-1.226	1.00 53.88	BBBB
ATOM	4593	CA		3 102					
						104.177	-1.219	1.00 56.27	BBBB
ATOM	4594	CB	ASP E	3 102	-29.482	104.740	0.173	1.00 55.80	BBBB
ATOM	4595	CG	ASP F	3 102	-30.568	105.822	0.136	1.00 55.26	BBBB
ATOM	4596		ASP I						
						107.017	0.105	1.00 54.26	BBBB
ATOM	4597	OD2	ASP E	3 102	-31.773	105.482	0.120	1.00 54.34	BBBB
ATOM	4598	С	ASP F	3 102	-29.102	105.346	-2.202	1.00 58.00	BBBB
ATOM	4599	ō							
				3 102		106.090	-2.223	1.00 58.97	BBBB
ATOM	4600	N	ALA I	3 103	-30.159	105.480	-3.009	1.00 59.15	BBBB
ATOM	4601	CA	ALA F	3 103	-30.325	106.546	-4.006	1.00 60.50	BBBB
ATOM	4602	СВ		3 103					
						107.904	-3.299	1.00 59.87	BBBB
ATOM	4603	С	ALA I	B 103	-29.331	106.611	-5.175	1.00 61.53	BBBB
ATOM	4604	0	ALA I	3 103	-29,705	106.478	-6.345	1.00 61.84	BBBB
MOTA	4605	N		B 104		106.839	-4.855	1.00 62.37	BBBB
ATOM	4606	CA		B 104	-27.020	106.947	-5.859	1.00 63.25	BBBB
ATOM	4607	CB	ASN B	B 104	-25.840	107.700	-5.247	1.00 64.03	BBBB
ATOM	4608	CG	ASN I	B 104	-25.704	107.443	-3.749	1.00 65.56	BBBB
ATOM	4609		ASN I						
						107.868	-2.958	1.00 65.18	BBBB
ATOM	4610	ND2	ASN I	B 104	-24.647	106.740	-3.356	1.00 65.70	BBBB
ATOM	4611	С	ASN I	B 104	-26.538	105.604	-6.411	1.00 63.62	BBBB
ATOM	4612	0		В 104		105.552	-7.470	1.00 63.94	
									BBBB
ATOM	4613	И		B 105	-26.859	104.523	-5.701	1.00 63.06	BBBB
ATOM	4614	CA	LYS I	B 105	-26.417	103.181	-6.080	1.00 61.38	BBBB
ATOM	4615	CB	T.YS 1	B 105	-26 846	102.831	-7.505	1.00 62.02	BBBB
MOTA	4616	CG		B 105	-28.344	102.601	<del>-</del> 7.657	1.00 61.80	BBBB
ATOM	4617	CD	LYS 1	B 105	-28.701	102.207	-9.083	0.01 61.78	BBBB
ATOM	4618	CE	LYS 1	B 105	-30.195	101.962	-9.235	0.01 61.74	BBBB
ATOM	4619	NZ		B 105		100.858	-8.359		
									BBBB
ATOM	4620	С	LYS	B 105	-24.898	103.198	-5.955	1.00 60.21	BBBB
MOTA	4621	0	LYS I	B 105	-24.174	102.496	-6.666	1.00 59.25	BBBB
MOTA	4622	N		B 106		104.052	-5.037	1.00 59.07	BBBB
ATOM									
	4623	CA		В 106		104.237	-4.697	1.00 57.55	BBBB
ATOM	4624	CB	THR	B 106	-22.556	105.672	-4.982	1.00 58.42	BBBB
MOTA	4625	OG1	THR I	B 106	-22.879	106.036	-6.332	1.00 59.19	BBBB
ATOM	4626		THR			105.769	-4.769	1.00 59.31	
									BBBB
ATOM	4627	C		В 106		104.004	-3.191	1.00 55.49	BBBB
ATOM	4628	0	THR I	B 106	-23.661	104.667	-2.421	1.00 55.67	BBBB
MOTA	4629	N	GLY !	B 107	-22.144	103.051	-2.781	1.00 52.89	BBBB
ATOM	4630	CA		B 107			-1.373	1.00 49.45	
						102.746			BBBB
ATOM	4631	С	GLY :	B 107	-20.639	102.188	-1.077	1.00 47.50	BBBB
ATOM	4632	0	GLY	B 107	-19.630	102.757	-1.481	1.00 46.17	BBBB
ATOM	4633	N		B 108		101.063	-0.376	1.00 45.86	BBBB
ATOM	4634	CA		B 108		100.438	-0.026	1.00 43.60	BBBB
ATOM	4635	CB	LEU 1	B 108	-19.570	99.242	0.897	1.00 42.15	BBBB
ATOM	4636	CG		B 108	-18.432		1.000	1.00 41.14	BBBB
ATOM	4637		LEU		-17.127		1.366	1.00 39.74	BBBB
MOTA	4638	CD2	LEU !	B 108	-18.810	97.177	2.026	1.00 41.18	BBBB
ATOM	4639	С		B 108	-18.590		-1.257	1.00 42.41	BBBB
ATOM	4640	ō		B 108					
					-18.842		-1.786	1.00 41.35	BBBB
MOTA	4641	N		В 109	-17.660	100.802	-1.714	1.00 42.65	BBBB
MOTA	4642	CA	LYS	B 109	-16.894	100.430	-2.888	1.00 44.05	BBBB
ATOM	4643	CB		B 109		101.646	-3.506	1.00 44.44	BBBB
ATOM	4644	CG		B 109		101.315	-4.733	1.00 43.89	BBBB
MOTA	4645	CD	LYS	B 109	-14.668	102.553	-5.276	1.00 44.88	BBBB

ATOM	4646	CE	LYS E	100	-14 155	102.338	-6.690	1.00 44.55	BBBB
ATOM	4647	NZ	LYS E			101.156	-6.782	1.00 45.72	BBBB
	4648					99.438	-2.485	1.00 44.01	BBBB
ATOM		С	LYS E		-15.832		-2.804	1.00 44.01	BBBB
ATOM	4649	0	LYS E		-15.910	98.258			
ATOM	4650	N	GLU E		-14.849	99.948	-1.755	1.00 43.45	BBBB
MOTA	4651	CA	GLU E		-13.705	99.174	-1.302	1.00 42.15	BBBB
MOTA	4652	CB	GLU E	3 110		100.113	-1.236	1.00 44.41	BBBB
MOTA	4653	CG	GLU E	3 110	-12.429	101.043	-2.443	1.00 45.27	BBBB
ATOM	4654	CD	GLU E	3 110	-11.155	101.840	-2.499	1.00 45.98	BBBB
MOTA	4655	OE1	GLU E	3 110	-10.935	102.530	-3.516	1.00 46.78	BBBB
ATOM	4656	OE2	GLU E	3 110	-10.376	101.777	-1.528	1.00 47.33	BBBB
ATOM	4657	C	GLU E		-13.877	98.433	0.028	1.00 39.19	BBBB
ATOM	4658	ō	GLU E		-14.415	98.961	0.995	1.00 38.49	BBBB
ATOM	4659	N	LEU E		-13.419	97.192	0.053	1.00 35.88	BBBB
			LEU E		-13.503	96.375	1.242	1.00 33.93	BBBB
ATOM	4660	CA			-14.798	95.556	1.275	1.00 33.47	BBBB
ATOM	4661	CB	LEU E				2.486	1.00 33.47	BBBB
ATOM	4662	CG	LEU E		-14.943	94.609			BBBB
MOTA	4663		LEU E		-15.289	95.403	3.739	1.00 35.21	
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ATOM	4666	0	LEU E	3 111	-12.515	94.234	1.041	1.00 33.76	BBBB
MOTA	4667	N	PRO I	3 112	-11.106	95.969	1.261	1.00 32.33	BBBB
ATOM	4668	CD	PRO E	3 112	-10.816	97.412	1.348	1.00 31.53	BBBB
ATOM	4669	CA	PRO E	3 112	9.866	95.194	1.219	1.00 32.24	BBBB
ATOM	4670	CB	PRO I	3 112	-8.860	96.149	1.829	1.00 32.01	BBBB
ATOM	4671	CG		3 112	-9.298		1.245	1.00 31.38	BBBB
ATOM	4672	C		3 112	-9.923		1.941	1.00 33.17	BBBB
ATOM	4673	Ö		3 112	-10.755		1.612	1.00 35.31	BBBB
	4674			3 113	-9.033		2.913	1.00 32.53	BBBB
MOTA		N					3.700	1.00 30.34	BBBB
ATOM	4675	CA		3 113	-8.937			1.00 28.44	BBBB
ATOM	4676	CB		B 113	-10.292		3.784		BBBB
ATOM	4677	CG		B 113	-11.379		4.464	1.00 29.23	
MOTA	4678	(SD		B 113	-12.740		5.198	1.00 32.50	BBBB
ATOM	4679	CE		B 113	-13.524		3.758	1.00 32.26	BBBB
ATOM	4680	C	MET I	В 113	-7.867	91.490	3.119	1.00 28.17	BBBB
ATOM	4681	0	MET I	B 113	-8.056	90.293	2.978	1.00 26.31	BBBB
ATOM	4682	N	ARG I	B 114	-6.725	92.078	2.799	1.00 27.84	BBBB
ATOM	4683	CA	ARG I	B 114	-5.601	91.344	2.229	1.00 27.45	BBBB
ATOM	4684	CB	ARG I	B 114	-4.462	92.307	1.892	1.00 27.05	BBBB
ATOM	4685	CG		B 114	-4.308	93.461	2.856	1.00 28.29	BBBB
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ATOM	4687	NE		B 114	-3.400		2.743	1.00 31.73	BBBB
ATOM	4688	CZ		B 114	-2.844		2.090	1.00 34.77	BBBB
	4689		ARG I		-2.065		1.036	1.00 36.73	BBBB
ATOM					-3.062		2.488	1.00 36.30	BBBB
ATOM	4690		ARG I					1.00 26.64	BBBB
ATOM	4691	С		B 114	-5.051		3.097		
MOTA	4692	0		B 114	-4.311		2.615	1.00 26.63	BBBB
ATOM	4693	N		B 115	-5.418		4.374	1.00 26.37	BBBB
ATOM	4694	CA		B 115	-4.933		5.336	1.00 23.71	BBBB
ATOM	4695	CB	ASN	в 115	-4.280		6.512	1.00 23.92	BBBB
ATOM	4696	CG	ASN :	B 115	-2.920		6.165	1.00 25.72	BBBB
ATOM	4697	OD1	ASN	в 115	-1.983	89.868	5.828	1.00 26.29	BBBB
ATOM	4698	ND2	ASN	в 115	-2.803	91.921	6.258	1.00 25.65	BBBB
ATOM	4699	C	ASN	B 115	-5.991	88.320	5.873	1.00 23.67	BBBB
ATOM	4700	0	ASN :	B 115	-5.656	87.426	6.633	1.00 25.58	BBBB
ATOM	4701	N		в 116	-7.253	88.483	5.486	1.00 21.08	BBBB
ATOM	4702	CA		B 116	-8.297	87.609	6.000	1.00 20.01	BBBB
ATOM	4703	CB		B 116	-9.662		5.564	1.00 18.10	BBBB
ATOM	4704	CG		B 116	-10.780		5.883	1.00 18.75	BBBB
ATOM	4705			B 116	-10.801		7.383	1.00 19.96	BBBB
	4706			B 116	-12.094		5.405	1.00 20.04	BBBB
MOTA					-8.138		5.581	1.00 21.08	BBBB
ATOM	4707	C		B 116				1.00 22.30	BBBB
ATOM	4708	0		B 116	-8.903		4.767		BBBB
ATOM	4709	N		В 117	-7.185		6.181	1.00 21.80	
ATOM	4710	CA		B 117	-6.917		5.806	1.00 22.85	BBBB
ATOM	4711	CB		B 117	-5.436		5.963	1.00 21.93	BBBB
ATOM	4712	CG	GLN	B 117	-4.651		4.803	1.00 23.78	BBBB
MOTA	4713	CD	GLN	B 117	-3.222	84.593	5.164	1.00 26.93	BBBB
ATOM	4714	OE1	GLN	B 117	-2.364	84.715	4.289	1.00 28.65	BBBB
ATOM	4715			B 117	-2.946	84.689	6.463	1.00 27.42	BBBB
ATOM	4716	С		B 117	-7.694		6.376	1.00 24.58	BBBB
ATOM	4717	ō		B 117	-7.476		5.952	1.00 22.81	BBBB
ATOM	4718	N		B 118	-8.616			1.00 27.40	BBBB
ATOM	4719	CA		B 118	-9.345				BBBB
ATOM	4720	CB		B 118	-8.381				BBBB
AL OF	4120	ون	2110	- 110	0.501	. 01.110	5.002		

ATOM	4721	CG .	GLU E	3 118	-8.858	79.719	9.000	1.00 31.35	BBBB
ATOM	4722		GLU E		-7.698	78.792	9.280	1.00 31.94	BBBB
MOTA	4723		GLU E		-6.639	79.288	9.726	1.00 30.29	BBBB
ATOM	4724	OE2	GLU E	3 118	-7.850	77.571	9.060	1.00 32.05	BBBB
ATOM	4725	С	GLU E	3 118	-10.579	82.316	8.653	1.00 28.82	BBBB
ATOM	4726	0	GLU E	3 118	-10.564	83.264	9.437	1.00 27.89	BBBB
ATOM	4727	N	ILE E	3 119	-11.644	81.542	8.451	1.00 29.00	BBBB
ATOM	4728	CA	ILE E	3 119	-12.899	81.733	9.158	1.00 30.13	BBBB
ATOM	4729	CB	ILE E	3 119	-14.043	82.008	8.161	1.00 30.73	BBBB
ATOM	4730		ILE E		-15.410	81.871	8.818	1.00 29.11	BBBB
ATOM	4731		ILE E		-13.873	83.423	7.606	1.00 31.20	BBBB
ATOM	4732		ILE E		-15.025	83.901	6.720	1.00 33.03	BBBB
ATOM	4733	C		3 119	-13.215	80.538	10.070	1.00 32.02	BBBB
ATOM	4734	0		3 119	-14.256	80.492	10.725	1.00 35.25 1.00 30.70	BBBB
ATOM	4735	N CA		B 120 B 120	-12.304 -12.440	79.576 78.424	10.122	1.00 30.70	BBBB BBBB
ATOM ATOM	4736 4737	CB		B 120	-11.782	78.741	12.354	1.00 26.65	BBBB
ATOM	4738	CG		B 120	-10.266	78.973	12.412	1.00 26.71	BBBB
ATOM	4739		LEU I		-9.941	79.871	13.566	1.00 29.59	BBBB
ATOM	4740		LEU I		-9.514	77.686	12.564	1.00 24.64	BBBB
ATOM	4741	c		B 120	-13.822	77.836	11.283	1.00 30.59	BBBB
MOTA	4742	ō		B 120	-14.043	76.661	11.032	1.00 30.96	BBBB
ATOM	4743	N	HIS !		-14.748	78.627	11.816	1.00 32.28	BBBB
ATOM	4744	CA	HIS !	B 121	-16.060	78.088	12.185	1.00 35.58	BBBB
ATOM	4745	CB	HIS :	B 121	-16.207	78.091	13.713	1.00 38.34	BBBB
ATOM	4746	CG	HIS :	B 121	-15.611	76.897	14.392	1.00 41.79	BBBB
ATOM	4747	CD2	HIS	B 121	-14.577	76.789	15.260	1.00 43.37	BBBB
MOTA	4748		HIS		-16.108	75.622	14.226	1.00 43.65	BBBB
MOTA	4749			B 121	-15.406	74.779	14.964	1.00 45.70	BBBB
MOTA	4750		HIS		-14.470	75.461	15.602	1.00 45.62	BBBB
ATOM	4751	С		B 121	-17.346	78.667	11.620	1.00 36.38	BBBB
ATOM	4752	0		B 121	-18.371	78.604	12.286	1.00 37.10 1.00 36.03	BBBB BBBB
ATOM	4753	N CA		B 122 B 122	-17.339 -18.590	79.214 79.736	10.415 9.907	1.00 35.03	BBBB
ATOM ATOM	4754 4755	CA	GLY	B 122	-18.693	79.736	8.405	1.00 36.37	BBBB
ATOM	4756	0		B 122	-17.748	79.597	7.661	1.00 37.21	BBBB
ATOM	4757	N		B 123	-19.869	80.292	7.965	1.00 36.72	BBBB
ATOM	4758	CA		B 123	-20.145	80.504	6.554	1.00 36.19	BBBB
ATOM	4759	СВ		B 123	-21.547	79.994	6.224	1.00 37.17	BBBB
ATOM	4760	C		B 123	-20.031	82.004	6.243	1.00 35.85	BBBB
ATOM	4761	0		B 123	-19.727	82.810	7.120	1.00 34.87	BBBB
MOTA	4762	N	VAL	B 124	-20.270	82.381	4.995	1.00 35.77	BBBB
MOTA	4763	CA	VAL	B 124	-20.181	83.780	4.616	1.00 34.52	BBBB
ATOM	4764	CB	VAL	B 124	-18.941	84.033	3.758	1.00 33.54	BBBB
ATOM	4765			B 124	-18.766	85.521	3.551	1.00 33.69	BBBB
MOTA	4766			B 124	-17.714	83.422	4.414	1.00 32.10	BBBB
MOTA	4767	С		B 124	-21.399	84.184	3.813	1.00 34.54	BBBB
ATOM	4768	0		B 124	-22.051	83.339	3.217 3.813	1.00 35.21 1.00 34.77	BBBB BBBB
ATOM	4769	N		B 125	-21.727	85.469 85.949	3.026	1.00 34.77	BBBB
ATOM	4770 4771	CA CB		B 125 B 125	-22.860 -24.193	85.858	3.767	1.00 35.42	BBBB
ATOM ATOM	4772	CG		B 125	-25.239	86.703	3.055	1.00 35.42	BBBB
MOTA	4773	CD		B 125	-26.676	86.476	3.450	1.00 35.51	BBBB
MOTA	4774	NE		B 125	-27.496	87.392	2.664	1.00 37.85	BBBB
ATOM	4775	CZ		B 125	-28.824	87.439	2.662	1.00 39.13	BBBB
ATOM	4776			B 125	-29.537	86.610	3.413	1.00 38.70	BBBB
ATOM	4777	NH2	ARG	B 125	-29.440	88.342	1.911	1.00 40.21	BBBB
ATOM	4778	C	ARG	B 125	-22.714	87.372	2.576	1.00 33.62	BBBB
ATOM	4779	0	ARG	B 125	-22.412	88.254	3.373	1.00 33.19	BBBB
MOTA	4780	N		B 126	-22.951	87.580	1.286	1.00 33.29	BBBB
MOTA	4781	CA	PHE	B 126	-22.896	88.900	0.682	1.00 32.29	BBBB
ATOM	4782	CB		B 126	-21.764	88.992	-0.325	1.00 29.34	BBBB
MOTA	4783	CG		B 126	-20.422	89.140	0.304	1.00 28.13	BBBB
ATOM	4784			B 126	-19.916	88.149	1.129	1.00 27.75	BBBB
ATOM	4785			B 126	-19.662	90.275	0.080	1.00 28.31	BBBB
ATOM	4786			B 126	-18.670		1.719	1.00 28.12	BBBB
MOTA	4787			B 126	-18.415	90.426	0.664	1.00 28.55	BBBB BBBB
ATOM	4788	CZ		B 126	-17.917 -24.214	89.429	1.486	1.00 29.40 1.00 33.13	BBBB
ATOM ATOM	4789 4790	0		B 126 B 126	-24.214 -24.899	89.120 88.167	-0.010 -0.373		BBBB
ATOM	4790	N		B 126	-24.599		-0.172		BBBB
ATOM	4792	CA		B 127	-25.831	90.720	-0.830		BBBB
ATOM	4793	CB		B 127	-27.014		-0.005		BBBB
ATOM	4794	OG		B 127	-28.251				BBBB
ATOM	4795	C		B 127	-25.933		-1.025		BBBB

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7 max	4706	^	SER B 127	-25.367	93.013	-0.261	1.00 34.13	BBBB
MOTA MOTA	4796 4797	О И	ASN B 128	-26.648	92.629	-2.065	1.00 33.90	BBBB
ATOM	4798	CA	ASN B 128	-26.842	94.030	-2.372	1.00 34.74	BBBB
ATOM	4799	CB	ASN B 128	-28.064	94.561	-1.623	1.00 35.36	BBBB
ATOM	4800	CG	ASN B 128	-29.340	93.875	-2.035	1.00 37.33	BBBB
ATOM	4801		ASN B 128	-30.417	94.219	-1.558	1.00 39.57	BBBB
ATOM	4802		ASN B 128	-29.233	92.898	-2.924	1.00 37.39	BBBB
ATOM	4803	С	ASN B 128	-25.642	94.912	-2.055	1.00 34.61	BBBB
ATOM	4804	0	ASN B 128	-25.648	95.627	-1.056	1.00 35.63	BBBB
MOTA	4805	N	ASN B 129	-24.616	94.875	-2.898	1.00 34.17	BBBB
ATOM	4806	CA	ASN B 129	-23.448	95.717	-2.677	1.00 34.40	BBBB
ATOM	4807	CB	ASN B 129	-22.248	94.865	-2.259	1.00 35.67	BBBB
ATOM	4808	CG	ASN B 129	-22.512	94.060	-0.982	1.00 37.21	BBBB
ATOM	4809		ASN B 129	-22.867	94.615	0.064	1.00 37.09	BBBB
MOTA	4810		ASN B 129	-22.334	92.743	-1.069	1.00 35.86	BBBB
ATOM	4811	С	ASN B 129	-23.150	96.469	-3.964	1.00 34.36	BBBB
MOTA	4812	0	ASN B 129	-22.025	96.504	-4.432	1.00 34.85	BBBB BBBB
ATOM	4813	N	PRO B 130	-24.171	97.116	-4.537	1.00 35.11	BBBB
ATOM	4814	CD	PRO B 130	-25.441 -24.073	97.436 97.876	-3.860 -5.776	1.00 32.90	BBBB
ATOM	4815 4816	CA.	PRO B 130 PRO B 130	-24.073	99.003	-5.552	1.00 32.71	BBBB
ATOM	4816	CB CG	PRO B 130	-26.175	98.278	-4.904	1.00 33.30	BBBB
ATOM ATOM	4818	C	PRO B 130	-22.724	98.367	-6.228	1.00 31.92	BBBB
ATOM	4819	Ö	PRO B 130	-22.416	98.288	-7.403	1.00 33:97	. BBBB
ATOM	4820	N	ALA B 131	-21.904	98.875	-5.333	1.00 30.35	BBBB
ATOM	4821	CA	ALA B 131	-20.624	99.376	-5.789	1.00 31.05	BBBB
ATOM	4822	CB	ALA B 131	-20.498		-5.436	1.00 30.21	BBBB
ATOM	4823	c	ALA B 131	-19.453	98.600	-5.233	1.00 32.96	BBBB
ATOM	4824	Ō	ALA B 131	-18.301	99.037	-5.326	1.00 33.16	BBBB
ATOM	4825	N	LEU B 132	-19.743	97.445	-4.643	1.00 34.48	BBBB
ATOM	4826	CA	LEU B 132	-18.679	96.627	-4.080	1.00 34.95	BBBB
ATOM	4827	CB	LEU B 132	-19.165	95.672	-2.980	1.00 32.42	BBBB
MOTA	4828	CG	LEU B 132	-18.010	94.764	-2.523	1.00 29.87	BBBB
ATOM	4829	CD1	LEU B 132	-16.936	95.623	-1.939	1.00 28.98	BBBB
MOTA	4830	CD2		-18.451	93.758	-1.510	1.00 28.40	BBBB
ATOM	4831	C.	LEU B 132	-18.103	95.797	-5.176	1.00 36.25	BBBB
ATOM	4832	0	LEU B 132	-18.769	94.919	-5.718	1.00 37.53	BBBB
MOTA	4833	N	CYS B 133	-16.868	96.085	-5.526	1.00 36.96	BBBB
ATOM	4834	CA	CYS B 133	-16.243	95.290	-6.536	1.00 38.86	BBBB
ATOM	4835	C	CYS B 133	-14.774	95.150	-6.202	1.00 37.68	BBBB BBBB
MOTA	4836	0	CYS B 133	-14.241	95.923	-5.403 -7.932	1.00 37.29 1.00 40.82	BBBB
ATOM	4837	CB	CYS B 133 CYS B 133	-16.485 -16.265	95.885 97.674	-8.150	1.00 40.62	BBBB
ATOM	4838 4839	SG N	ASN B 134	-14.157	94.134	-6.807	1.00 36.19	BBBB
ATOM ATOM	4840	CA	ASN B 134	-12.760	93.775	-6.631	1.00 33.27	BBBB
ATOM	4841	CB	ASN B 134	-12.007	94.861	-5.879	1.00 31.51	BBBB
ATOM	4842	CG	ASN B 134	-10.603	95.025	-6.361	1.00 30.41	BBBB
ATOM	4843		ASN B 134	-10.146	94.278	-7.212	1.00 29.79	BBBB
ATOM	4844		ASN B 134	-9.900	96.007	-5.816	1.00 30.43	BBBB
ATOM	4845	С	ASN B 134	-12.810	92.504	-5.800	1.00 33.10	BBBB
ATOM	4846	0	ASN B 134	-12.048	91.577	-6.008	1.00 33.37	BBBB
ATOM	4847	N	VAL B 135	-13.759	92.469	-4.878	1.00 34.08	BBBB
ATOM	4848	CA	VAL B 135	-13.946	91.343	-3.978	1.00 34.75	BBBB
ATOM	4849	CB	VAL B 135	-14.803	91.768	-2.750	1.00 33.75	BBBB
ATOM	4850		. VAL B 135	-15.024	90.608	-1.815	1.00 30.86	BBBB
MOTA	4851	CG2	VAL B 135	<b>-1</b> 4.119	92.902	-2.021	1.00 34.17	BBBB
ATOM	4852	С	VAL B 135	-14.585	90.119	-4.624	1.00 36.09	BBBB
ATOM	4853	0	VAL B 135	-14.570	89.046	-4.034	1.00 37.44	BBBB
ATOM	4854	N	GLU B 136	-15.140	90.244	-5.825	1.00 36.71	BBBB
MOTA	4855	CA	GLU B 136	-15.766	89.064	-6.430	1.00 37.89 1.00 39.78	BBBB BBBB
ATOM	4856	CB	GLU B 136	-16.842	89.449	-7.460	1.00 39.78	BBBB
ATOM	4857	CG	GLU B 136	-16.338	89.765	-8.868 -8.891	1.00 45.89	BBBB
MOTA	4858	CD	GLU B 136	-15.324	90.895 91.863	-8.114	1.00 45.35	BBBB
MOTA	4859		GLU B 136	-15.501 -14.361	90.822	-9.691	1.00 46.51	BBBB
ATOM ATOM	4860 4861	C C	GLU B 136	-14.752	88.136	-7.086	1.00 36.94	BBBB
ATOM	4861	0	GLU B 136	-14.732	87.112	-7.661	1.00 36.97	BBBB
ATOM	4863	N	SER B 137	-13.120	88.490	-6.996	1.00 34.58	BBBB
ATOM	4864	CA	SER B 137	-12.431	87.665	-7.583	1.00 33.86	BBBB
ATOM	4865	CB	SER B 137	-11.259	88.528	-8.058	1.00 33.86	BBBB
ATOM	4866	OG	SER B 137	-10.498	89.042	-6.978	1.00 32.28	BBBB
MOTA	4867	C	SER B 137	-11.934	86.679	-6.547	1.00 34.55	BBBB
MOTA	4868	0	SER B 137	-11.411	85.614	-6.872	1.00 33.34	BBBB
MOTA	4869	N	ILE B 138	-12.130	87.047	-5.289	1.00 35.32	BBBB
ATOM	4870	CA	ILE B 138	-11.682	86.258	-4.158	1.00 35.50	BBBB

ATOM	4871	CB	ILE E	138	-12.109	86.947	-2.838	1.00 34.65	BBBB
ATOM	4872		ILE E		-11.845	86.033	-1.627	1.00 35.95	BBBB
MOTA	4873	CG1	ILE E	138	-11.355	88.272	-2.697	1.00 32.21	BBBB
ATOM	4874	CD1	ILE E	138	-9.859	88.130	-2.692	1.00 28.69	BBBB
ATOM	4875	С	ILE E		-12.107	84.798	-4.147	1.00 37.00	BBBB
ATOM	4876	0	ILE E	3 138	-13.256	84.463	-4.461	1.00 36.56	BBBB
ATOM	4877	N	GLN E	3 139	-11.146	83.948	-3.772	1.00 38.84	BBBB
ATOM	4878	CA	GLN E		-11.312		-3.666		BBBB
						82.497		1.00 40.84	
MOTA	4879	CB	GLN E	139	-10.078	81.791	-4.249	1.00 40.90	BBBB
ATOM	4880	CG	GLN E	139	-9.579	82.400	-5.567	1.00 41.41	BBBB
ATOM	4881	CD	GLN E		-8.432	81.635	-6.210	1.00 41.07	BBBB
MOTA	4882	OE1	GLN E	3 139	-8.538	80.433	-6.471	1.00 41.57	BBBB
ATOM	4883	NE2	GLN E	3 139	-7.335	82.336	-6.487	1.00 38.33	BBBB
ATOM	4884	С	GLN E		-11.438	82.171	-2.177	1.00 42.45	BBBB
ATOM	4885	0	GLN E	3 139	-10.437	82.122	-1.457	1.00 43.33	BBBB
ATOM	4886	N	TRP E	3 140	-12.664	81.962	-1.708	1.00 43.74	BBBB
ATOM	4887	CA	TRP E	R 140	-12.887	81.672	-0.293	1.00 44.19	BBBB
ATOM	4888	CB	TRP E		-14.308	82.069	0.114	1.00 44.20	BBBB
MOTA	4889	CG	TRP F	3 140	-14.653	83.454	-0.299	1.00 44.14	BBBB
ATOM	4890	CD2			-14.638	84.623	0.524	1.00 44.35	BBBB
MOTA	4891		TRP E		-14.946	85.717	-0.302	1.00 44.28	BBBB
ATOM	4892	CE3	TRP E	3 140	-14.391	84.851	1.882	1.00 44.70	BBBB
MOTA	4893	CD1	TRP E	3 140	-14.965	83.872	-1.551	1.00 43.97	BBBB
ATOM	4894		TRP E		-15.141	85.229	-1.565	1.00 44.77	BBBB
ATOM	4895	CZ2	TRP E	3 140	-15.015	87.026	0.178	1.00 44.72	BBBB
MOTA	4896	C7.3	TRP E	3 140	-14.460	86.152	2.360	1.00 45.61	BBBB
ATOM	4897		TRP E		-14.770	87.224	1.507	1.00 44.76	BBBB
ATOM	4898	C	TRP F	3 140	-12.653	80.208	0.032	1.00 45.26	BBBB
ATOM	4899	0	TRP F	3 140	-12.538	79.836	1.203	1.00 46.55	BBBB
ATOM	4900	N	ARG I		-12.584	79.377	-1.005	1.00 45.56	BBBB
ATOM	4901	CA	ARG I	3 141	-12.349	77.948	-0.830	1.00 44.51	BBBB
ATOM	4902	CB	ARG I	3 141	-12.304	77.243	-2.185	1.00 45.58	BBBB
ATOM	4903	CG		3 141	-13.584	77.349	-3.005	1.00 47.73	BBBB
ATOM	4904	CD	ARG I	3 141	-13.835	78.759	-3.517	0.01 47.18	BBBB
ATOM	4905	NE	ARG I	3 141	-15.026	78.819	-4.361	0.01 47.51	BBBB
ATOM	4906	CZ	ARC I	3 141	-15.472	79.923	-4.950	0.01 47.52	BBBB
ATOM	4907		ARG I		-14.827	81.071	-4.791	0.01 47.70	BBBB
ATOM	4908	NH2	ARG I	3 141	-16.563	79.880	-5.702	0.01 47.69	BBBB
ATOM	4909	С	ARG I	3 141	-11.025	77.744	-0.116	1.00 42.95	BBBB
ATOM	4910	0		3 141	-10.695	76.629	0.266	1.00 43.95	BBBB
ATOM	4911	N	ASP I	3 142	-10.284	78.838	0.053	1.00 41.08	BBBB
ATOM	4912	CA	ASP 1	3 142	-8.985	78.854	0.708	1.00 39.12	BBBB
ATOM	4913	CB		3 142	-7.958	79.482	-0.218	1.00 38.57	BBBB
MOTA	4914	CG		B 142	-6.623	79.732	0.457	1.00 39.74	BBBB
ATOM	4915	OD1	ASP I	3 142	-6.517	80.621	~ 1~.~330	1.00 39.81	BB <b>BB</b>
ATOM	4916	002	ASP I	R 142	-5.662	79.035	0.098	1.00 41.04	BBBB
ATOM	4917	C		B 142	-9.053	79.657	1.994	1.00 40.42	BBBB
ATOM	4918	0	ASP 1	B 142	-8.059	79.772	2.708	1.00 40.99	BBBB
ATOM	4919	N	ILE 1	B 143	-10.222	80.223	2.283	1.00 40.85	BBBB
ATOM	4920	CA				_			
				B 143	-10.417	81.016	3.496	1.00 41.02	BBBB
MOTA	4921	CB		B 143	-10.918	82.461	3.184	1.00 42.31	BBBB
ATOM	4922	CG2	ILE 1	B 143	-11.212	83.209	4.493	1.00 41.33	BBBB
ATOM	4923		ILE 1		-9.878	83.220	2.352	1.00 42.58	BBBB
ATOM	4924		ILE :		-10.247	84.664	2.084	1.00 43.21	BBBB
ATOM	4925	С	ILE :	B 143	-11.454	80.347	4.370	1.00 40.65	BBBB
ATOM	4926	0		B 143	-11.268	80.214	5.570	1.00 39.98	BBBB
ATOM	4927	N		B 144			3.750		BBBB
					-12.551	79.935		1.00 42.22	
ATOM	4928	CA		B 144	-13.642	79.278	4.455	1.00 45.17	BBBB
MOTA	4929	CB	VAL	B 144	-14.903	79.173	3.567	1.00 44.81	BBBB
ATOM	4930		VAL		-16.079	78.670	4.376	1.00 44.30	BBBB
MOTA	4931	CG2	VAL :		-15.219	80.519	2.966	1.00 44.73	BBBB
MOTA	4932	С	VAL	B 144	-13.228	77.873	4.870	1.00 47.26	BBBB
ATOM	4933	Ō		B 144	-12.138	77.406	4.540	1.00 48.17	BBBB
ATOM	4934	N		B 145	-14.095	77.199	5.606	1.00 48.93	BBBB
ATOM	4935	CA	SER	B 145	-13.782	75.856	6.029	1.00 51.89	BBBB
ATOM	4936	CB	SER	B 145	-13.849	75.747	7.550	1.00 52.59	BBBB
MOTA	4937	OG		B 145	-12.854	76.567	8.152	1.00 52.75	BBBB
ATOM	4938	С	SER	B 145	-14.758	74.909	5.368	1.00 53.79	BBBB
ATOM	4939	0	SER	B 145	-15.972	75.035	5.522	1.00 54.40	BBBB
ATOM	4940	N		B 146	-14.196	73.972	4.613	1.00 55.17	BBBB
ATOM	4941	CA	SER	B 146	-14.951	72.972	3.877	1.00 56.16	BBBB
ATOM	4942	CB	SER	B 146	-13.993	71.892	3.378	1.00 57.15	BBBB
	4943	OG						1.00 58.43	BBBB
ATOM				B 146	-12.963	72.471	2.588		
ATOM	4944	С	SER	B 146	-16.090	72.351	4.674	1.00 56.60	BBBB
ATOM	4945	0	SER	B 146	-17.074	71.898	4.102	1.00 56.19	BBBB
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ATOM	4946	N	ASP	В	147	-15.961	72.326	5.992	1.00 57.72	BBBB
ATOM	4947		ASP			-17.012	71.777	6.829	1.00 59.28	BBBB
ATOM	4948		ASP			-16.678	72.028	8.304	1.00 62.44	BBBB
ATOM	4949		ASP			-17.789	71.585	9.255	1.00 65.38	BB <b>BB</b>
ATOM	4950	OD1				-17.539	71.528	10.483	1.00 66.01	BBBB
ATOM	4951	OD2				-18.914	71.302	8.784	1.00 67.63	BBBB
ATOM	4952	C	ASP			-18.312	72.473	6.441	1.00 59.67	BBBB
ATOM	4953	Ö	ASP			-19.395	71.896	6.528	1.00 59.68	BBBB
ATOM	4954	N	PHE			-18.190	73.720	5.996	1.00 60.72	BBBB
ATOM	4955	CA	PHE			-19.346	74.520	5.582	1.00 61.18	BBBB
ATOM	4956	CB	PHE			-19.207	75.946	6.123	1.00 60.23	BBBB
ATOM	4957	CG	PHE			-19.477	76.057	7.590	1.00 59.20	BBBB
ATOM	4958	CD1				-18.668	75.406	8.510	1.00 59.14	BBBB
		CD1				-20.571	76.772	8.053	1.00 58.88	BBBB
ATOM	4959	CE1				-18.947	75.460	9.871	1.00 58.45	BBBB
ATOM	4960					-20.855	76.830	9.406	1.00 58.65	BBBB
ATOM	4961	CE2				-20.033	76.171	10.317	1.00 58.35	BBBB
ATOM	4962	CZ			148	-19.545	74.549	4.058	1.00 61.55	BBBB
ATOM	4963	Ç			148		73.670	3.503	1.00 62.14	BBBB
ATOM	4964	0			148	-20.207	75.556	3.398	1.00 60.40	BBBB
ATOM	4965	И			149	-18.968		1.948	1.00 58.92	BBBB
ATOM	4966	CA			149	-19.061	75.731		1.00 57.27	BBBB
ATOM	4967	CB			149	-18.109	74.780	1.229	1.00 57.27	BBBB
ATOM	4968	CG			149	-16.627	75.097	1.396		BBBB
ATOM	4969		LEU			-15.805	74.166	0.526	1.00 57.13	
ATOM	4970		LEU			-16.369	76.536	1.009	1.00 56.89	BBBB
ATOM	4971	C			149	-20.459	75.560	1.383	1.00 58.92	BBBB
MOTA	4972	0			149	-20.996	76.481	0.778	1.00 59.99	BBBB
ATOM	4973	N			150	-21.042	74.381	1.567	1.00 58.35	BBBB
ATOM.	4974	CA			150	-22.385	74.101	1.078	1.00 57.76	BBBB
MOTA	4975	CB			150	-22.783	72.660	1.394	1.00 57.70	BBBB
ATOM	4976	OG			150	-22.975	72.474	2.786	1.00 56.56	BBBB
MOTA	4977	С			150	-23.367	75.043	1.752	1.00 58.01	BBBB
ATOM	4978	0			150	-24.576	74.901	1.599	1.00 57.85	BBBB
ATOM	4979	N	ASN	В	151	-22.837	75.991	2.517	1.00 58.23	BBBB
ATOM	4980	CA	ASN	В	151	-23.660	76.961	3.215	1.00 58.34	BBBB
ATOM	4981	CB	ASN	В	151	-23.518	76.786	4.727	1.00 61.08	BBBB
MOTA	4982	CG	ASN	В	151	-24.532	75.819	5.286	1.00 64.76	BBBB
MOTA	4983	OD1	ASN	В	151	-25.734	75.994	5.078	1.00 66.18	BBBB
ATOM	4984	ND2	ASN	В	151	-24.067	74.798	5.995	1.00 68.28	BBBB
ATOM	4985	С	ASN	В	151	-23.302	78.379	2.809	1.00 57.06	BBBB
ATOM	4986	0	ASN	В	151	-23.983	79.336	3.185	1.00 56.28	BBBB
MOTA	4987	N	MET	В	152	-22.226	78.512	2.042	1.00 55.26	BBBB
MOTA	4988	CA	MET	В	152	-21.810	79.817	1.564	1.00 54.04	BBBB
ATOM	4989	CB	MET	В	152	-20.657	79.681	0.569	1.00 52.39	BBBB
ATOM	4990	CG	MET	В	152	-19.334	79.323	1.194	1.00 50.21	BBBB
ATOM	4991	SD	MET	В	152	-18.694	80.687	2.142	1.00 49.00	BBBB
ATOM	4992	CE	MET	В	152	-17.657	81.443	0.951	1.00 49.22	BBBB
ATOM	4993	С	MET	В	152	-23.019	80.437	0.868	1.00 54.30	BBBB
MOTA	4994	0	MET	В	152	-24.029	79.764	0.643	1.00 53.73	BBBB
ATOM	4995	N			153	-22.915	81.719	0.529	1.00 54.23	BBBB
ATOM	4996	CA			153	-24.001	82.423	-0.133	1.00 54.16	BBBB
MOTA	4997	CB	SER	В	153	-25.091	82.765	0.883	1.00 53.09	BBBB
ATOM	4998	OG	SER	В	153	-26.141	83.492	0.271	1.00 52.39	BBBB
ATOM	4999	С	SER	В	153	-23.519	83.696	-0.820	1.00 54.91	BBBB
ATOM	5000	0			153	-24.154	84.741	-0.690	1.00 54.54	BBBB
ATOM	5001	N			154	-22.403	83.600	-1.544	1.00 55.97	BBBB
ATOM	5002	CA			154	-21.827	84.738	-2.261	1.00 56.94	BBBB
ATOM	5003	СВ			154	-20.907	84.252	-3.382	1.00 59.10	BBBB
ATOM	5004	CG			154	-19.425	84.240	-3.033	1.00 62.95	BBBB
ATOM	5005	SD			154	-18.353	84.258	-4.531	1.00 65.88	BBBB
ATOM	5006	CE			154	-17.970	82.464	-4.725	1.00 64.74	BBBB
ATOM	5007	C			154	-22.888	85.674		1.00 56.45	BBBB
ATOM	5008	Ö			154	-23.581	86.374	-2.113	1.00 57.21	BBBB
ATOM	5009	N			155	-22.989	85.710	-4.183	1.00 54.71	BBBB
ATOM	5010	CA			155	-23.979	86.545	-4.865	1.00 53.29	BBBB
	5010	CB			155	-25.262	86.610	-4.033	1.00 52.44	BBBB
MOTA					155	-26.404	87.255	-4.768	1.00 53.18	BBBB
ATOM	5012	CG				-26.172	88.232	-5.508	1.00 52.43	BBBB
ATOM	5013				155	-27.547	86.784	-4.592	1.00 54.88	BBBB
MOTA	5014				155		87.970	-5.165	1.00 52.38	BBBB
ATOM	5015	C			155	-23.520		-4.673	1.00 52.08	BBBB
ATOM	5016	0			155	-24.101	88.921	-5.972	1.00 51.63	BBBB
ATOM	5017	N C			156	-22.485	88.132		1.00 51.86	BBBB
MOTA	5018	CA			156	-22.040	89.478	_		BBBB
ATOM	5019	CB			156	-20.529				BBBB
ATOM	5020	CG	PHE	: 8	156	-19.716	89.159	-5.315	T.00 33.4T	DDDD

ATOM	5021	CD1	PHE	В	156	-19.82	27	87.912	-4.711	1.00	54.28	BBBB
ATOM	5022		PHE			-18.82		90.084	-4.782		53.52	BBBB
ATOM	5023		PHE			-19.06	4	87.593	-3.591	1.00	54.40	BBBB
ATOM	5024		PHE			-18.05	8	89.777	-3.664	1.00	54.32	BBBB
ATOM	5025	CZ	PHE			-18.17		88.529	-3.066		54.53	BBBB
ATOM	5026	С	PHE			-22.77		89.969	-7.538		52.03	BBBB
ATOM	5027	0	PHE			-23.19		89.169	-8.364		53.11	BBBB
ATOM ATOM	5028	N	GLN			-22.92		91.281	-7.669		51.92	BBBB
ATOM	5029 5030	CA CB	GLN GLN			-23.61		91.876	-8.810		51.98	BBBB
ATOM	5030	CG	GLN			-25.13 -25.63		91.668 90.229	-8.707 -8.682		54.05 57.48	BBBB BBBB
ATOM	5032	CD	GLN			-27.15		90.149	-8.533		59.39	BBBB
ATOM	5033		GLN			-27.89		90.618	-9.398		59.87	BBBB
ATOM	5034	NE2				-27.62		89.559	-7.429		59.30	BBBB
ATOM	5035	C	GLN	В	157	-23.36		93.376	-8.816		51.05	BBBB
MOTA	5036	0	GLN	В	157	-24.31	. 4	94.144	-8.856	1.00	51.40	BBBB
MOTA	5037	N	ASN			-22.11	.6	93.820	-8.788	1.00	49.87	BBBB
ATOM	5038	CA	ASN			-21.90		95.260	-8.750		49.28	BBBB
ATOM	5039	CB	ASN			-20.42		95.608	-8.548		50.13	BBBB
ATOM	5040	CG OD1	ASN			-19.59		95.433	-9.793		50.17	BBBB
ATOM ATOM	5041 5042		ASN ASN			-19.95 -18.47			-10.863		51.88	BBBB
ATOM	5042	C	ASN			-22.46		94.744 96.011	-9.661 -9.951		50.17 48.78	BBBB
ATOM	5044	0	ASN		158	-22.35			-11.090		47.05	BBBB BBBB
ATOM	5045	N	HIS			-23.09		97.143	-9.672		49.64	BBBB
ATOM	5046	CA	HIS			-23.68			-10.713		50.02	BBBB
ATOM	5047	CB	HIS			-24.52			-10.065		49.70	BBBB
MOTA	5048	CG	HIS	В	159	-25.45	59		-11.012		49.90	BBBB
MOTA	5049	CD2	HIS	В	159	-26.80	9	99.869	-11.013	0.01	49.85	BBBB
MOTA	5050		HIS		159	-25.02	6	100.468	-12.121	0.01	49.85	BBBB
ATOM	5051		HIS						-12.766		49.91	BBBB
ATOM	5052		HIS					100.611			49.91	BBBB
ATOM	5053	C	HIS			-22.55			-11.591		49.32	BBBB
ATOM ATOM	5054 5055	N O	HIS LEU			-21.67			-12.048		48.41	BBBB
ATOM	5056	CA	LEU		160	-22.59 -21.64			-11.803 -12.606		48.50 47.39	BBBB
ATOM	5057	CB	LEU					100.039			47.75	BBBB BBBB
ATOM	5058	CG	LEU					102.772			47.73	BBBB
ATOM	5059		LEU						-13.885		47.52	BBBB
ATOM	5060	CD2	LEU	В	160				-11.691		46.40	BBBB
ATOM	5061	C	LEU			-20.37	4	99.943	-13.073	1.00	46.19	BBBB
ATOM	5062	0	LEU						-14.242	1.00	44.72	BBBB
ATOM	5063	N	GLY			-19.71			-12.155		45.67	BBBB
ATOM	5064	CA	GLY			-18.48			-12.479		43.93	BBBB
ATOM ATOM	5065 5066	C 0	GLY		161	-17.31 -16.62			-12.539		42.80	BBBB
ATOM	5067	И	SER						-13.560 -11.446		43.13	BBBB BBBB
ATOM	5068	CA	SER						-11.390		40.55	BBBB
ATOM	5069	СВ	SER						-10.626		39.83	BBBB
ATOM	5070	OG	SER					102.120			39.76	BBBB
ATOM	5071	С	SER	В	162				-10.697		40.51	BBBB
MOTA	5072	0	SER			-14.17	79	101.247	-9.847	1.00	41.14	BBBB
ATOM	5073	И	CYS			-14.36			-11.052		39.76	BBBB
ATOM	5074	CA	CYS			-13.22			-10.356		40.83	BBBB
MOTA	5075	C	CYS			-11.93			-11.079		41.06	BBBB
MOTA MOTA	5076 5077	O CB	CYS CYS			-11.89			-12.079		41.55	BBBB
ATOM	5078	SG	CYS			-13.65 -14.26		97.546 97.936			40.94	BBBB BBBB
ATOM	5079	N	GLN			-10.85			-10.530		40.29	BBBB
ATOM	5080	CA	GLN			-9.54			-11.103		39.13	BBBB
MOTA	5081	CB	GLN			-8.48			-10.131		37.61	BBBB
ATOM	5082	CG	GLN	В	164	-8.60	02	100.884			36.13	BBBB
ATOM	5083	CD	GLN	В	164	-7.64	12	101.363	-8.805	1.00	35.58	BBBB
ATOM	5084		GLN					101.198			35.24	BBBB
ATOM	5085		GLN					101.951			34.37	BBBB
ATOM	5086	C	GLN			-9.31			-11.448		39.92	BBBB
ATOM	5087	0	GLN			-10.17			-11.227		40.12	BBBB
ATOM ATOM	5088 5089	N CA	LYS			-8.14			-12.008		41.33	BBBB
ATOM	5090	CB	LYS LYS			-7.78 -6.97			-12.419 -13.715		41.86 42.37	BBBB BBBB
ATOM	5090	CG	LYS			-6.59			-14.335		42.37	BBBB
ATOM	5092	CD	LYS			-5.88			-15.654		42.30	BBBB
ATOM	5093	CE	LYS			-6.73			-16.559		43.35	BBBB
ATOM	5094	NZ	LYS			-8.15			-16.651		43.00	BBBB
ATOM	5095	C	LYS	В	165	-6.92			-11.309		41.87	BBBB

ATOM	5096	0	LYS	В	165	-6.250	96.086	-10.654	1.00	42.44	BBBB
MOTA	5097	N	CYS			-6.938	93.987	-11.087		41.75	BBBB
						-6.113		-10.031		41.08	BBBB
ATOM	5098	CA	CYS			•					
ATOM	5099	С	CYS			-4.655		-10.261		40.70	BBBB
MOTA	5100	0	CYS	В	166	-4.218	94.885	-10.039	1.00	41.03	BBBB
MOTA	5101	CB	CYS	В	166	-6.287	91.920	-9.932	1.00	40.42	BBBB
ATOM	5102	SG	CYS	R	166	-7.729	91.401	-8.950	1.00	44.26	BBBB
								-10.722		40.79	BBBB
MOTA	5103	N	ASP			-3.903					
ATOM	5104	CA	ASP			-2.480		-10.954		41.92	BBBB
ATOM	5105	CB	ASP	В	167	-1.828	93.534	-9.691	1.00	41.64	BBBB
ATOM	5106	CG	ASP	В	167	-0.335	93.732	-9.833	1.00	43.02	BBBB
ATOM	5107		ASP			0.129	94.881	-9.669		42.93	BBBB
										45.20	BBBB
ATOM	5108		ASP			0.376		-10.094			
ATOM	5109	С	ASP	В	167	-1.908		-11.286		42.60	BBBB
ATOM	5110	0	ASP	В	167	-1.819	90.716	-10.428	1.00	41.73	BBBB
ATOM	5111	N	PRO	В	168	-1.509	91.379	-12.547	1.00	43.54	BBBB
ATOM	5112	CD	PRO			-1.304	92.467	-13.521	1.00	43.10	BBBB
		CA	PRO			-0.942		-13.053		44.71	BBBB
ATOM	5113										
MOTA	5114	CB	PRO			-0.201		-14.303		44.66	BBBB
ATOM	5115	CG	PRO	В	168	-1.050	91.712	-14.783	1.00	43.44	BBBB
ATOM	5116	С	PRO	В	168	-0.024	89.410	-12.054	1.00	44.69	BBBB
ATOM	5117	0	PRO	В	168	1.193	89.358	-12.229	1.00	46.01	BBBB
ATOM	5118	N			169	-0.628		-11.012	1 00	43.58	BBBB
										43.10	BBBB
ATOM	5119	CA	SER			0.092	88.147	-9.969			
ATOM	5120	CB			169	0.954	89.096	-9.156		42.70	BBBB
ATOM	5121	OG	SER	В	169	1.194	88.533	-7.875	1.00	42.99	BBBB
ATOM	5122	С	SER	В	169	-0.934	87.520	-9.058	1.00	42.60	BBBB
ATOM	5123	ō			169	-0.808	86.382	-8.651	1.00	42.97	BBBB
							88.289	-8.719		43.15	BBBB
ATOM	5124	N			170	-1.948					
MOTA	5125	CA			170	-3.008	87.780	-7.885		45.27	BBBB
ATOM	5126	С	CYS	В	170	-3.466	86.497	-8.586	1.00	46.04	BBBB
ATOM	5127	0	CYS	В	170	-4.116	86.545	-9.622	1.00	46.04	BBBB
ATOM	5128	СВ			170	-4.132	88.810	-7.820	1.00	46.60	BBBB
					170	-3.654	90.467	-7.195		50.23	BBBB
ATOM	5129	SG								47.93	BBBB
ATOM	5130	N			171	-3.139	85.331	-8.011			
ATOM	5131	CD	PRO	В	171	-2.945	85.199	-6.557		48.88	BBBB
ATOM	5132	CA	PRO	В	171	-3.498	84.030	-8.581	1.00	48.68	BBBB
ATOM	5133	СВ	PRO	В	171	-3.335	83.083	-7.405	1.00	48.48	BBBB
ATOM	5134	CG			171	-3.732	83.943	-6.253	1.00	48.24	BBBB
								-9.122		50.31	BBBB
MOTA	5135	С			171	-4.900	83.991				
ATOM	5136	0	PRO	В	171	-5.797	84.617	-8.570		52.06	BBBB
MOTA	5137	N	ASN	В	172	-5.090	83.249	-10.203		51.57	BBBB
ATOM	5138	CA	ASN	В	172	-6.406	83.118	-10.805	1.00	52.37	BBBB
ATOM	5139	СВ			172	-7.279	82.206	-9.940	1.00	57.00	BBBB
					172	-6.732	80.782	-9.844		61796	
ATOM	5140	CG									
ATOM	5141		ASN			-5.583	80.567	-9.440		62.97	BBBB
ATOM	5142	ND2	ASN	В	172	-7.571	79.814	-10.212		65.64	BBBB
ATOM	5143	С	ASN	В	172	<del>-</del> 7.075	84.475	-10.961	1.00	50.70	BBBB
ATOM	5144	0	ASN	В	172	-8.292	84.558	-11.105	1.00	50.92	BBBB
	5145	N			173	-6.266		-10.920	1.00		BBBB
ATOM								-11.068	1.00		BBBB
MOTA	5146	CA			173	-6.770					
MOTA	5147	С			173	-7.67 <i>7</i>		-9.951		48.05	BBBB
ATOM	5148	0	GLY	В	173	-8.571	88.189	-10.178		48.09	BBBB
ATOM	5149	N	SER	В	174	-7.450	86.863	-8.743	1.00	47.52	BBBB
ATOM	5150	CA			174	-8.240		-7.580	1.00	45.85	BBBB
ATOM	5151	CB			174	-8.705	86.004			46.82	BBBB
										49.86	BBBB
ATOM	5152	OG			174	-7.647	85.071				
MOTA	5153	С	SER	В	174	-7.407	88.120			44.63	BBBB
ATOM	5154	0	SER	В	174	-6.259	87.808	-6.358	1.00	43.51	BBBB
ATOM	5155	N	CYS	В	175	-7.994	89.224	-6.224	1.00	43.91	BBBB
ATOM	5156	CA			175	-7.301	90.153	-5.351	1.00	43.71	BBBB
						-8.312	90.932	-4.527		44.59	BBBB
ATOM	5157	С			175						BBBB
ATOM	5158	0			175	-9.360	91.326			45.27	
MOTA	5159	CB			175	-6.483	91.130			43.88	BBBB
MOTA	5160	SG	CYS	В	175	-7.479	92.314	-7.147	1.00	42.53	BBBB
ATOM	5161	N			176	-7.997	91.161	-3.262	1.00	44.24	BBBB
					176	-8.898	91.901	-2.408		43.98	BBBB
MOTA	5162	CA									BBBB
MOTA	5163	CB			176	-8.362	91.947			45.38	
ATOM	5164	CG			176	-8.554	90.680			45.93	BBBB
MOTA	5165	CD2	TRP	В	176	-9.806	90.087	0.065	1.00	46.86	BBBB
ATOM	5166				176	-9.524	88.851	0.683	1.00	47.65	BBBB
MOTA	5167				176	-11.143	90.478			45.90	BBBB
						-7.588	89.817			46.45	BBBB
MOTA	5168				176			_			
ATOM	5169				176	-8.159				48.47	BBBB
MOTA	5170	CZ2	TRP	В	176	-10.532	87.996	1.153	1.00	47.31	BBBB

ATOM	5171	CZ3	TRP 1	B 1	76	-12.146	89.627	0.382	1.00	46.76	BBBB
ATOM	5172	CH2		B 1	76	-11.832	88.402	0.993		47.00	BBBB
ATOM	5173	С	TRP 1	B 1	76	-9.071	93.307	-2.918	1.00	43.89	BBBB
ATOM	5174	0	TRP 1			-10.184	93.746	-3.179	1.00	43.46	BBBB
ATOM	5175	N	GLY			-7.960	94.018	-3.052		43.57	BBBB
ATOM	5176	CA	GLY I			-8.033	95.383	-3.527		44.42	BBBB
ATOM ATOM	5177 5178	C 0	GLY :			-7.299	95.634	-4.824		44.62	BBBB
ATOM	5179	N	ALA !			-6.932 -7.093	94.706 96.908	-5.542 -5.129		44.67	BBBB
ATOM	5180	CA	ALA			-6.389	97.293	-6.343		45.74	BBBB BBBB
ATOM	5181	CB	ALA :			-6.966	98.598	-6.884		44.97	BBBB
ATOM	5182	С	ALA	B 1	78	-4.890	97.443	-6.070		45.24	BBBB
ATOM	5183	0	ALA			-4.450	98.395	-5.424	1.00	45.62	BBBB
ATOM	5184	N	GLY			-4.110	96.490	-6.559		44.66	BBBB
MOTA	5185	CA	GLY :			-2.677	96.543	-6.350		44.17	BBBB
ATOM ATOM	5186 5187	0	GLY :			-2.083	95.172	-6.097		44.47	BBBB
ATOM	5188	N	GLU :			-2.806 -0.757	94.173 95.121	-6.025 -5.996		44.80 43.76	BBBB
ATOM	5189	CA	GLU			-0.050	93.882	-5.721		43.70	BBBB BBBB
ATOM	5190	CB	GLU			1.454	94.090	-5.890		41.64	BBBB
ATOM	5191	CG	GLU	B 1	30	1.870	94.540	-7.281		41.87	BBBB
ATOM	5192	CD	GLU			3.366	94.748	-7.405	0.01	41.68	BBBB
ATOM	5193		GLU			4.123	93.775	-7.198	0.01	41.77	BBBB
ATOM	5194		GLU :			3.785	95.885	-7.711		41.79	BBBB
ATOM	5195	С	GLU			-0.371	93.575	-4.266		43.73	BBBB
ATOM ATOM	5196 5197	O N	GLU			-0.809	92.475	-3.921		43.75	BBBB
ATOM	5198	N CA	GLU GLU			-0.165 -0.404	94.596 94.571	-3.435 -1.988		44.85	BBBB
ATOM	5199	CB	GLU			-0.274	95.995	-1.420		45.56	BBBB BBBB
ATOM	5200	CG	GLU			1.156	96.519	-1.313		45.13	BBBB
ATOM	5201	CD	GLU			1.860	96.625	-2.653		45.06	BBBB
MOTA	5202		GLU			2.137	95.576	-3.271		44.94	BBBB
MOTA	5203	OE2	GLU	B 1	B1	2.137	97.762	-3.090	0.01	44.94	BBBB
ATOM	5204	С	GLU			-1.742	93.988	-1.527	1.00	44.16	BBBB
ATOM	5205	0	GLU			-1.911	93.686	-0.351		42.92	BBBB
ATOM	5206 5207	N	ASN			-2.690	93.833	-2.444		44.60	BBBB
ATOM ATOM	5207	CA CB	ASN ASN			-3.999 -5.065	93.303 94.367	-2.081		45.21	BBBB
ATOM	5209	CG	ASN			-4.739	95.654	-2.306 -1.594		46.01 46.81	BBBB BBBB
ATOM	5210		ASN			-4.865	95.752	-0.375		46.45	BBBB
ATOM	5211		ASN			-4.292	96.647	-2.351		46.73	BBBB
MOTA	5212	C	ASN			-4.354	92.043	-2.845		44.71	BBBB
ATOM	5213	0	ASN			-5.525	91.693	-2.988	1.00	44.30	BBBB
ATOM	5214	N	CYS			-3.331	91.372	-3.351		44.70	BBBB
TATOM	5215		CYS			-3.7533	90.125			45.07	BBBB
ATOM ATOM	5216 5217	С 0	CYS			-4.005	89.117	-3.016		44.84	BBBB
ATOM	5218	CB	CYS			-3.587 -2.212	89.193 89.643	-1.855 -4.655		45.06	BBBB
ATOM	5219	SG	CYS			-1.828	90.227	-4.655 -6.326		45.81 49.60	BBBB BBBB
ATOM	5220	N	GLN			-4.869	88.181	-3.402		42.65	BBBB
ATOM	5221	CA	GLN			-5.319	87.192	-2.439		40.22	BBBB
MOTA	5222	CB	GLN	B 1	84	-6.396	86.275	-3.015		38.23	BBBB
ATOM	5223	CG	GLN	B 1	84	-6.903	85.270	-1.993	1.00	37.67	BBBB
ATOM	5224	CD	GLN			-8.145	84.519	-2.440		38.56	BBBB
ATOM	5225		GLN			-9.028	85.078	-3.082		38.18	BBBB
ATOM	5226		GLN			-8.224	83.247	-2.079		39.18	BBBB
ATOM ATOM	5227 5228	С О	GLN GLN			-4.112 -3.279	86.364 86.117	-2.107		40.50	BBBB
ATOM	5229	N	LYS			-3.279	85.959	-2.965 -0.854		41.28	BBBB BBBB
ATOM	5230	CA	LYS			-2.883	85.122	-0.436		41.21	BBBB
ATOM	5231	CB	LYS			-2.178	85.718	0.785		41.99	BBBB
ATOM	5232	CG	LYS			-0.841	86.354	0.464		43.17	BBBB
ATOM	5233	CD	LYS			-0.089	86.710	1.736		45.53	BBBB
ATOM	5234	CE	LYS			1.410	86.895	1.470	1.00	46.38	BBBB
ATOM	5235	NZ	LYS			2.216	87.040	2.737		46.67	BBBB
MOTA	5236	C	LYS			-3.440	83.742	-0.110		40.52	BBBB
MOTA	5237	O N	LYS			-3.879	83.488	1.017		41.41	BBBB
ATOM ATOM	5238 5239	N CA	LEU			-3.435 -3.937	82.868	-1.116		37.71	BBBB
ATOM	5240	CB	LEU			-3.937 -3.978	81.508 80.845	-0.983 -2.350		35.51 34.54	BBBB
ATOM	5241	CG	LEU			-4.819	81.477	-3.442		33.93	BBBB BBBB
ATOM	5242		LEU			-4.318	80.969	-4.765		33.45	BBBB
ATOM	5243		LEU			-6.290	81.151	-3.245		32.81	BBBB
ATOM	5244	С	LEU			-3.053	80.660	-0.082		34.61	BBBB
MOTA	5245	0	LEU	В 1	86	-1.844	80.616	-0.277	1.00	35.18	BBBB

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MOTA	5246	N	THR	В	187	-3.663	79.990	0.894	1.00	32.99	BBBB
ATOM	5247	CA	THR			-2.959	79.096	1.826	1.00	31.46	BBBB
ATOM	5248	CB	THR			-2.425	79.847	3.054		29.79	BBBB
ATOM	5249		THR			-3.456	80.680	3.584		30.68	BBBB
ATOM	5250		THR			-1.244	80.693	2.694		29.76	BBBB
ATOM	5251	C	THR			-3.913	77.998	2.320		30.79	BBBB
ATOM	5252	ŏ	THR			-3.515	76.861	2.567		28.76	BBBB
										65.46	BBBB
MOTA	5253	N	CYS			-2.881	73.298	0.361			
ATOM	5254	CA	CYS			-1.544	73.630	-0.115		64.95	BBBB
ATOM	5255	С	CYS			-0.969	72.654	-1.132		65.47	BBBB
ATOM	5256	0			191	-0.568	73.049	-2.228		65.47	BBBB
ATOM	5257	CB	CYS			-0.600	73.730	1.066		63.60	BBBB
ATOM	5258	SG	CYS	-		-0.638	75.365	1.838		62.92	BBBB
ATOM	5259	N	ALA			-0.925	71.381	-0.755		65.77	BBBB
MOTA	5260	CA	ALA	В	192	-0.397	70.334	-1.617		65.72	BBBB
MOTA	5261	CB	ALA	В	192	1.095	70.532	-1.797	1.00	65.60	BBBB
ATOM	5262	С	ALA	В	192	-0.672	68.959	-1.012	1.00	65.62	BBBB
MOTA	5263	0	ALA	В	192	-1.383	68.835	-0.010	1.00	65.70	BBBB
ATOM	5264	N	GLN	В	193	-0.122	67.923	-1.634	1.00	65.25	BBBB
ATOM	5265	CA			193	-0.290	66.571	-1.123	1.00	64.62	BBBB
ATOM	5266	CB			193	-0.124	65.546	-2.251	1.00	63.88	BBBB
ATOM	5267	CG			193	-1.130	65.701	-3.381		63.89	BBBB
ATOM	5268	CD	GLN			-0.962	64.650	-4.462		63.70	· BBBB
ATOM	5269		GLN			-1.066	63.452	-4.200		63.70	BBBB
						-0.703		-5.686		63.70	BBBB
ATOM	5270		GLN				65.096				
ATOM	5271	C			193	0.807	66.396	-0.077		64.22	BBBB
ATOM	5272	0			193	1.988	66.595	-0.381		64.54	BBBB
ATOM	5273	N	GLN			0.402	66.052	1.147		62.80	BBBB
ATOM	5274	CA	GLN			1.308	65.847	2.285		61.84	BBBB
ATOM	5275	CB	GLN			2.740	65.546	1.803		61.89	BBBB
ATOM	5276	CG	GLN			3.754	65.290	2.907		62.03	BBBB
MOTA	5277	CD	GLN	В	194	3.422	64.065	3.738		61.89	BBBB
MOTA	5278	OE1	GLN	В	194	2.369	63.996	4.372	0.01	61.84	BBBB
MOTA	5279	NE2	GLN	В	194	4.324	63.091	3.739	0.01	61.85	BBBB
MOTA	5280	С	GLN	В	194	1.301	67.083	3.190	1.00	61.03	BBBB
ATOM	5281	0	GLN	В	194	2.353	67.570	3.617	1.00	60.86	BBBB
MOTA	5282	N	CYS	В	195	0.099	67.581	3.475	1.00	59.85	BBBB
ATOM	5283	CA			195	-0.087	68.757	4.320	1.00	57.55	BBBB
ATOM	5284	С			195	-1.185	68.563	5.340	1.00	56.39	BBBB
ATOM	5285	0			195	-2.349	68.429	4.977	1.00	56.68	BBBB
ATOM	5286	CB			195	-0.413	69.974	3.467	1.00	56.22	BBBB
ATOM	5287	SG			195	1.082	70.844	2.924		57.51	BBBB
MOTA	5288	N			196	-0.807	68.568	6.616		55.23	BBBB
ATOM	5289	CA			196	-1.750	68.374	7.717		53.82	BBBB
	5290	-CB				1:003					- BBBB -
ATOM	5291	OG			196	-0.387	69.608	9.269		53.19	BBBB
ATOM	5292	C			196	-2.834	69.438	7.779		52.88	BBBB
ATOM	5293	Ö			196	-3.891	69.214	8.358		52.71	BBBB
ATOM	5294	N	GLY			-2.561	70.593	7.184		52.61	BBBB
											BBBB
ATOM	5295	CA			197	-3.517	71.685	7.187		52.46 52.37	
ATOM	5296	C			197	-3.085	72.775	6.229			BBBB
MOTA	5297	0			197	-3.101	72.561	5.021		53.06	BBBB
MOTA	5298	N			198	-2.694	73.934			51.79	BBBB
ATOM	5299	CA			198	-2.257	75.044	5.910		51.54	BBBB
ATOM	5300	CB			198	-2.567	76.377	6.586		49.54	BBBB
MOTA	5301	CG			198	-3.996	76.480	7.084		47.91	BBBB
ATOM	5302	CD			198	-4.415	77.931	7.304		47.43	BBBB
MOTA	5303	NE	ARG	В	198	-5.011	78.529	6.113		45.55	BBBB
MOTA	5304	CZ	ARG	В	198	-6.258	78.311	5.704	1.00	44.95	BBBB
MOTA	5305	NH1	ARG	В	198	-7.068	77.515	6.386	1.00	44.32	BBBB
ATOM	5306	NH2	ARG	В	198	-6.685	78.871	4.585	1.00	44.67	BBBB
ATOM	5307	С	ARG	В	198	-0.769	74.945	5.646	1.00	52.64	BBBB
ATOM	5308	0	ARG	В	198	-0.167	73.918	5.927	1.00	52.98	BBBB
ATOM	5309	N	CYS	В	199	-0.188	76.006	5.085	1.00	54.70	BBBB
ATOM	5310	CA			199	1.256	76.063	4.791		56.05	BBBB
ATOM	5311	C			199	1.704	77.448	4.327		55.73	BBBB
ATOM	5312	o			199	0.935	78.415	4.340		55.24	BBBB
ATOM	5312	CB			199	1.659	75.088	3.694		57.50	BBBB
ATOM	5314	SG			199	1.329	75.796	2.051		60.56	BBBB
ATOM	5314	N			200	2.962	77.513	3.900		55.17	BBBB
					200			3.425		54.55	BBBB
ATOM	5316 5317	CA				3.560	78.750			53.79	BBBB
ATOM	5317	CB			200	4.807	79.079	4.258			BBBB
ATOM	5318	CG			200	5.277	80.533	4.195		54.02	BBBB
ATOM	5319	CD			200	5.740	80.958	2.805		54.01	
MOTA	5320	NE	HKG	B	200	4.628	81.151	1.879	0.01	53.99	BBBB

ATOM	5321	CZ	ARG	В	200		4.768	81.528	0.612	0.01 53.95	BBBB
ATOM	5322		ARG		200		5.977	81.755	0.115	0.01 53.87	BBBB
ATOM	5323		ARG				3.700	81.679	-0.160	0.01 53.86	BBBB
ATOM ATOM	5324 5325	C 0	ARG ARG				3.934 3.418	78.536 77.626	1.961 1.313	1.00 54.11 1.00 53.02	BBBB BBBB
ATOM	5326	N	GLY				7.580	75.841	0.614	1.00 33.02	BBBB
ATOM	5327	CA	GLY				6.771	76.316	-0.494	1.00 70.25	BBBB
ATOM	5328	С	GLY				5.430	75.617	-0.493	1.00 70.63	BBBB
ATOM	5329	0	GLY				5.297	74.573	0.136	1.00 71.18	BBBB
ATOM	5330	N	LYS LYS				4.440	76.185	-1.183	1.00 70.91 1.00 70.90	BBBB
ATOM ATOM	533 <b>1</b> 5332	CA CB	LYS				3.101 2.102	75.590 76.549	-1.246 -1.918	1.00 70.90	BBBB BBBB
ATOM	5333	CG	LYS				0.631	76.083	-1.852	1.00 69.65	BBBB
ATOM	5334	CD	LYS	В	202		-0.309	76.988	-2.657	1.00 67.01	BBBB
MOTA	5335	CE	LYS				-1.794	76.645	-2.437	1.00 66.18	BBBB
ATOM	5336	NZ	LYS				-2.236	75.290	-2.878	1.00 62.00	BBBB
ATOM ATOM	5337 5338	С 0	LYS LYS				3.164 2.738	74.291 74.238	-2.036 -3.195	1.00 71.22 1.00 70.79	BBBB BBBB
ATOM	5339	N	SER				3.692	73.245	-1.401	1.00 70.79	BBBB
ATOM	5340	CA	SER				3.827	71.951	-2.054	1.00 71.13	BBBB
ATOM	5341	CB	SER	В	203		4.534	72.145	-3.404	1.00 71.87	BBBB
ATOM	5342	OG			203		5.593	73.088	-3.303	1.00 70.98	BBBB
ATOM	5343	C			203		4.512	70.814	-1.269	1.00 70.32	BBBB
MOTA	5344 5345	0	SER		203		3.849	69.860 70.920	-0.861 -1.019	1.00 71.04 1.00 68.74	BBBB BBBB
ATOM ATOM	5345	N CD	PRO				5.834 6.542	70.920	-0.987	1.00 68.74	BBBB
ATOM	5347	CA	PRO		204		6.626	69.909	-0.303	1.00 68.12	BBBB
ATOM	5348	CB	PRO	В	204		7.813	70.714	0.217	1.00 68.09	BBBB
ATOM	5349	CG			204		7.955	71.795	-0.776	1.00 67.64	BBBB
ATOM	5350	C	PRO				5.935	69.134	0.825	1.00 68.25	BBBB
ATOM ATOM	5351 5352	0 N	PRO		204 205		4.967 6.490	68.398 69.287	0.612 2.023	1.00 67.59 1.00 67.96	BBBB BBBB
ATOM	5352	CA			205		5.990	68.663	3.247	1.00 67.54	BBBB
ATOM	5354	CB			205		6.812	67.409	3.577	1.00 67.95	BBBB
ATOM	5355	OG	SER	В	205		6.329	66.746	4.733	1.00 68.09	BBBB
ATOM	5356	C			205		6.214	69.751	4.300	1.00 66.71	BBBB
ATOM	5357	0			205		6.004	69.559	5.503	1.00 66.21	BBBB
ATOM ATOM	5358 5359	N CA			206 206		6.652 6.940	70.903	3.794 4.587	1.00 65.08 1.00 63.21	BBBB BBBB
ATOM	5360	CB			206		7.838	73.035	3.786	1.00 63.21	BBBB
MOTA	5361	CG	ASP				9.083	72.352	3.267	1.00 62.97	BBBB
MOTA	5362		ASP				8.961	71.283	2.638	1.00 62.06	BBBB
ATOM	5363		ASP		206		10.185	72.886	3.483	1.00 63.70	BBBB
ATOM -	5364 5365-	C O~O	ASP ASP		206	_	5.636	72.795 -74-029	4.940	1.00 61.54 -100-62.21	BBBB -BBBB
ATOM	5366	N	CYS		207		4.615	72.003	5.237	1.00 57.84	BBBB
MOTA	5367	CA	CYS	В			3.329	72.557	5.612	1.00 54.41	BBBB
ATOM	5368	С	CYS	В	207		3.482	73.169	7.005	1.00 52.05	BBBB
ATOM	5369	0			207		4.519	73.029		1.00 51.67	BBBB
ATOM ATOM	5370 5371	CB SG			207 207		2.292 2.488	71.445	5.637 4.271	1.00 54.27 1.00 52.12	BBBB BBBB
ATOM	5372	И			208		2.455	73.861	7.471	1.00 49.84	BBBB
ATOM	5373	CA			208		2.507	74.464	8.789	1.00 47.55	BBBB
ATOM	5374	С			208		2.248	73.361	9.787	1.00 47.19	BBBB
ATOM	5375	0			208		2.096	72.202	9.419	1.00 47.29	BBBB
MOTA MOTA	5376 5377	CB SG			208 208		1.408 1.416	75.517 76.961	8.970 7.869	1.00 45.83 1.00 43.18	BBBB BBBB
ATOM	5378	N			209		2.186	73.747		1.00 46.68	BBBB
ATOM	5379	CA			209		1.899	72.837		1.00 47.12	BBBB
MOTA	5380	CB	HIS	В	209		2.521	73.402	13.426	1.00 48.62	BBBB
MOTA	5381	CG			209		2.318	72.548		1.00 49.35	BBBB
ATOM	5382				209		3.202	71.868		1.00 50.05	BBBB
ATOM ATOM	5383 5384				209 209		1.078 1.210	72.329 71.552		1.00 50.18	BBBB BBBB
ATOM	5385				209		2.489	71.259			BBBB
ATOM	5386	C			209		0.369	72.799			BBBB
ATOM	5387	0			209		-0.249	73.814		1.00 47.36	BBBB
ATOM	5388	N			210		-0.237	71.642		1.00 45.94	BBBB
ATOM	5389	CA			210		-1.693	71.510		1.00 44.98	BBBB BBBB
ATOM ATOM	5390 5391	CB CG			210		-2.094 -1.793	70.077 69.724		1.00 47.25	BBBB
ATOM	5392				210		-2.400	68.813			BBBB
ATOM	5393	ND2	ASN	В	210		-0.847	70.440	14.435	1.00 51.69	BBBB
ATOM	5394	С			210		-2.391	72.466			BBBB
ATOM	5395	0	ASN	В	210		-3.535	72.858	12.798	1.00 41.96	BBBB

ATOM	5396	N	GLN B	211	-1.701	72.840	14.085	1.00 41.78	BBBB
MOTA	5397	CA	GLN B		-2.272	73.743	15.072	1.00 40.69	BBBB
ATOM	5398	CB	GLN B	211	-1.416	73.736	16.335	1.00 40.73	BBBB
ATOM	5399	CG	GLN B	211	-1.682	72.542	17.233	1.00 40.73	BBBB
ATOM	5400	CD	GLN B		-3.133	72.427	17.616	1.00 39.61	BBBB
MOTA	5401		GLN B		-3.739	73.380	18.088	1.00 38.42	BBBB
ATOM	5402	NE2			-3.701	71.253	17.414	1.00 41.06	BBBB
ATOM	5403	С	GLN B		-2.455	75.174	14.584	1.00 39.35	BBBB
ATOM	5404	0	GLN B		-3.321	75.894	15.068	1.00 38.65	BBBB
ATOM	5405	N	CYS B		-1.646	75.588	13.621	1.00 38.41	BBBB
ATOM ATOM	5406 5407	CA C	CYS B		-1.744 -3.106	76.935 77.274	13.092 12.487	1.00 37.20 1.00 37.37	BBBB BBBB
ATOM	5408	0	CYS B		-3.100	76.407	12.252	1.00 37.37	BBBB
MOTA	5409	СВ	CYS B		-0.677	77.152	12.035	1.00 36.02	BBBB
ATOM	5410	SG	CYS B		1.049	77.047	12.608	1.00 39.12	BBBB
ATOM	5411	N	ALA B		-3.304	78.565	12.254	1.00 36.82	BBBB
MOTA	5412	CA	ALA B	213	-4.510	79.093	11.630	1.00 35.13	BBBB
MOTA	5413	CB	ALA B	213	-5.452	79.661	12.672	1.00 34.08	BBBB
MOTA	5414	С	ALA B	213	-3.967	80.199	10.734	1.00 34.73	BBBB
MOTA	5415	0	ALA B		-2.827	80.629	10.911	1.00 34.39	BBBB
MOTA	5416	N	ALA B		-4.760	80.657	9.778	1.00 34.49	BBBB
ATOM	5417	CA	ALA B		-4.302	81.698	8.868	1.00 36.05	BBBB
ATOM	5418	CB	ALA B		-3.815	82.905	9.644	1.00 35.28	BBBB
ATOM	5419	C	ALA B		-3.168	81.132	8.024	1.00 36.80	BBBB
ATOM	5420	0	ALA B		-3.401	80.579	6.952 8.514	1.00 38.00 1.00 36.96	BBBB BBBB
ATOM ATOM	5421 5422	N CA	GLY B		-1.942 -0.787	81.270 80.753	7.801	1.00 36.96	BBBB
ATOM	5423	C	GLY B		0.340	80.527	8.785	1.00 37.35	BBBB
ATOM	5424	ō	GLY B		0.083	80.309	9.962	1.00 37.52	BBBB
ATOM	5425	N	CYS B		1.582	80.577	8.316	1.00 38.10	BBBB
ATOM	5426	CA	CYS B		2.728	80.398	9.194	1.00 39.48	BBBB
ATOM	5427	C	CYS B	216	4.003	80.933	8.575	1.00 41.22	BBBB
ATOM	5428	0	CYS B	216	4.029	81.258	7.400	1.00 41.35	BBBB
ATOM	5429	CB	CYS B		2.913	78.929	9.554	1.00 39.17	BBBB
MOTA	5430	SG	CYS B		3.234	77.820	8.160	1.00 36.69	BBBB
ATOM	5431	N	THR B		5.055	81.022	9.383	1.00 43.62	BBBB
ATOM	5432	CA	THR B		6.350	81.530	8.944	1.00 45.83	BBBB
ATOM	5433	CB	THR B		6.631	82.903	9.550	1.00 47.58	BBBB
ATOM	5434 5435	OG1 CG2			6.605 5.579	82.803 83.902	10.981 9.110	1.00 48.81	BBBB BBBB
ATOM ATOM	5435	C	THR B		7.430	80.582	9.423	1.00 47.36	BBBB
ATOM	5437	ō	THR B		8.478	81.007	9.901	1.00 47.29	BBBB
ATOM	5438	N	GLY B		7.155	79.290	9.297	1.00 49.73	BBBB
ATOM	5439	CA	GLY B		8.092	78.265	9.721	1.00 51.43	BBBB
-ATOM	5440	G	GLY -B	21.8	7 335	76.966	9:-925	1.00 52.62	- BBBB
MOTA	5441	0	GLY B	218	6.107	76.993	10.026	1.00 52.66	BBBB
ATOM	5442	N	PRO B		8.030	75.814	9.997	1.00 52.85	BBBB
MOTA	5443	CD	PRO B		9.478	75.687	9.750	1.00 52.64	BBBB
ATOM	5444	CA	PRO B		7.431	74.488	10.184	1.00 52.38	BBBB
ATOM	5445	CB	PRO B		8.305	73.621	9.313	1.00 52.87 1.00 53.20	BBBB
ATOM ATOM	5446 5447	CG C	PRO B		9.674 7.525	74.167 74.066	9.666 11.633	1.00 52.80	BBBB BBBB
ATOM	5448	0	PRO B		8.274	73.149	11.960	1.00 52.35	BBBB
ATOM	5449	N	ARG B		6.768	74.730	12.498	1.00 53.38	BBBB
ATOM	5450	CA	ARG B		6.823	74.426	13.916	1.00 54.34	BBBB
ATOM	5451	CB	ARG B		8.101	75.022	14.521	1.00 53.90	BBBB
ATOM	5452	CG	ARG B	220	8.434	74.528	15.921	0.01 54.28	BBBB
MOTA	5453	CD	ARG E	220	8.748	73.039	15.922	0.01 54.31	BBBB
MOTA	5454	NE	ARG B		9.190	72.568	17.232	0.01 54.45	BBBB
MOTA	5455	C2	ARG E		8.440	72.588	18.329	0.01 54.50	BBBB
MOTA	5456		ARG B		7.199	73.055	18.282	0.01 54.60	BBBB
ATOM	5457		ARG B		8.931	72.141	19.477	0.01 54.57	BBBB
MOTA	5458	С	ARG E		5.617	74.964	14.667	1.00 55.58	BBBB
ATOM	5459	0	ARG B		4.906	75.849	14.183	1.00 56.25 1.00 55.92	BBBB BBBB
ATOM ATOM	5460 5461	N CD	GLU B		5.416	74.423 74.803	15.865 16.741	1.00 55.32	BBBB
ATOM	5461	CA CB	GLU E		4.323 4.107	74.803	17.783	1.00 56.73	BBBB
ATOM	5462	CG	GLU E		2.679	73.707	18.281	1.00 58.50	BBBB
ATOM	5464	CD	GLU E		2.493	72.411	19.226	1.00 58.36	BBBB
MOTA	5465		GLU E		1.343	71.966	19.409	1.00 57.64	BBBB
ATOM	5466		GLU E		3.501	71.942	19.792	1.00 59.61	BBBB
ATOM	5467	C	GLU E		4.685	76.105	17.439	1.00 54.99	BBBB
MOTA	5468	0	GLU E	221	4.425	76.272	18.621	1.00 54.56	BBBB
MOTA	5469	N	SER E		5.292	77.025	16.704	1.00 55.06	BBBB
ATOM	5470	CA	SER E	222	5.692	78.306	17.270	1.00 55.38	BBBB

ATOM	5471	СВ	SER	В	222	6.974	78.145	18.074	1.00 55.72	BBBB
ATOM	5472	OG	SER			8.052	77.855	17.205	1.00 56.34	BBBB
ATOM	5473	С	SER	В	222	5.942	79.312	16.158	1.00 55.57	BBBB
ATOM	5474	0	SER			6.304	80.462	16.410	1.00 55.95	BBBB
ATOM	5475	N	ASP			5.766	78.873	14.922	1.00 54.59 1.00 53.73	BBBB
ATOM ATOM	5476 5477	CA CB	ASP ASP			5.978 6.848	79.761 79.060	13.795 12.748	1.00 55.19	BBBB BBBB
ATOM	5478	CG	ASP			8.121	78.484	13.349	1.00 56.12	BBBB
ATOM	5479		ASP			8.648	79.102	14.302	1.00 56.34	BBBB
ATOM	5480	OD2	ASP	В	223	8.599	77.431	12.870	1.00 54.87	BBBB
ATOM	5481	С	ASP			4.620	80.151	13.216	1.00 52.23	BBBB
ATOM	5482	0	ASP			4.533	80.861	12.208	1.00 52.26	BBBB
ATOM	5483	N	CYS			3.564	79.685	13.884	1.00 49.03	BBBB
ATOM ATOM	5484 5485	CA C	CYS			2.192 1.938	79.956 81.445	13.477 13.320	1.00 45.28 1.00 44.61	BBBB BBBB
ATOM	5486	0			224	2.802	82.266	13.631	1.00 44.73	BBBB
ATOM	5487	СВ			224	1.209	79.407	14.516	1.00 43.11	BBBB
MOTA	5488	SG	CYS	В	224	1.008	77.600	14.557	1.00 37.83	BBBB
ATOM	5489	N	LEU	В	225	0.751	81.787	12.818	1.00 43.11	BBBB
ATOM	5490	CA			225	0.363	83.186	12.674	1.00 41.48	BBBB
MOTA	5491	CB			225	-0.198	83.473	11.270	1.00 40.40	BBBB
MOTA MOTA	5492 5493	CG CD1	TEO		225	0.783 0.131	83.512 84.235	10.091 8.929	1.00 38.74 1.00 37.59	BBBB BBBB
ATOM	5494		LEU			2.062	84.225	10.479	1.00 37.86	BBBB
ATOM	5495	C			225	-0.689	83.471	13.751	1.00 39.75	BBBB
MOTA	5496	0			225	-0.654	84.501	14.420	1.00 38.71	BBBB
MOTA	5497	N	VAL	В	226	-1.606	82.520	13.911	1.00 38.59	BBBB
ATOM	5498	CA			226	-2.677	82.577	14.904	1.00 36.90	BBBB
ATOM	5499	CB			226	-3.942	83.210	14.301	1.00 35.54	BBBB
ATOM	5500		VAL			-5.001	83.382 84.534	15.364	1.00 38.01 1.00 35.54	BBBB BBBB
ATOM ATOM	5501 5502	CG2	VAL		226	-3.603 -2.976	81.124	13.699 15.347	1.00 35.34	BBBB
ATOM	5503	ō			226	-3.056	80.212	14.518	1.00 36.61	BBBB
ATOM	5504	N			227	-3.127	80.891	16.643	1.00 34.49	BBBB
MOTA	5505	CA	CYS	В	227	-3.395	79.536	17.103	1.00 33.22	BBBB
ATOM	5506	С			227	-4.816	79.129	16.806	1.00 33.78	BBBB
ATOM	5507	0			227	-5.708	79.957	16.821	1.00 33.17	BBBB
ATOM ATOM	5508 5509	CB SG			227 227	-3.120 -1.355	79.416 79.500	18.593 19.033	1.00 31.74 1.00 29.74	BBBB BBBB
ATOM	5510	N			228	-5.024	77.845	16.538	1.00 23.74	BBBB
ATOM	5511	CA			228	-6.355	77.346	16.206	1.00 36.76	BBBB
ATOM	5512	CB	ARG	В	228	-6.253	76.185	15.214	1.00 39.57	BBBB
MOTA	5513	CG			228	<del>-</del> 7.575	75.486	14.923	1.00 44.55	BBBB
ATOM	5514	CD			228	-7.448	74.552	13.732	1.00 48.36	BBBB
-ATOM ATOM	5515 5516	· NE CZ			228 - 228	-6 <del>-</del> 252 -6.023	72.811	-13.816 14.768	1.00 52.85	· BBBB ·
ATOM	5517				228	-6.907	72.616	15.741	1.00 54.85	BBBB
ATOM	5518				228	-4.908		14.738	1.00 56.76	BBBB
MOTA	5519	С			228	-7.132		17.424	1.00 37.68	BBBB
MOTA	5520	0	ARG	В	228	-8.363	76.979	17.456	1.00 37.86	BBBB
ATOM	5521	N			229	-6.407		18.430	1.00 39.02	BBBB
ATOM	5522	CA			229	-7.037		19.656	1.00 38.95	BBBB
ATOM ATOM	5523 5524	CB CG			229	-6.860 -7.498		19.815 18.687	1.00 38.98 1.00 38.07	BBBB BBBB
ATOM	5525	CD			229	-7.761		19.101	0.01 37.74	BBBB
ATOM	5526	CE			229	-8.498		18.010	0.01 37.38	BBBB
ATOM	5527	NZ	LYS	В	229	-8.800	70.057	18.409	0.01 37.14	BBBB
ATOM	5528	С			229	-6.502		20.875	1.00 38.83	BBBB
ATOM	5529	0			229	-7.054		21.266	1.00 38.57	BBBB
ATOM	5530 5531	N			230	-5.428 -4.858		21.464 22.646	1.00 38.87 1.00 39.73	BBBB BBBB
ATOM ATOM	5531	CA CB			230	-4.667		23.759	1.00 39.73	BBBB
ATOM	5533	CG			230	-5.831		24.686	1.00 37.92	BBBB
ATOM	5534				230	-6.186		25.214	1.00 38.37	BBBB
ATOM	5535				230	-6.569		25.043	1.00 38.65	BBBB
ATOM	5536				230	-7.263		26.086	1.00 39.11	BBBB
ATOM	5537				230	-7.648		25.915	1.00 39.05	BBBB
MOTA	5538	CZ			230	-7.993		26.434	1.00 37.92 1.00 40.94	BBBB BBBB
MOTA MOTA	5539 5540	C 0			230	-3.525 -2.776		22.362 21.509	1.00 40.94	BBBB
ATOM	5541	N			231	-3.234		23.089	1.00 41.40	BBBB
ATOM	5542	CA			231	-1.955		22.959	1.00 44.02	BBBB
ATOM	5543	CB	ARG	3 E	231	-2.160		22.604	1.00 45.52	BBBB
ATOM	5544	CG			231	-0.946		21.924	1.00 47.27	BBBB
ATOM	554 <b>5</b>	CD	ARG	3 E	231	-0.370	82.526	22.682	1.00 49.35	BBBB

ATOM	5546	NE	ARG	В	231	-1.022	83.781	22.332	1.00 51.71	BBBB
ATOM	5547	CZ	ARG		231	-2.288	84.075	22.609	1.00 52.96	BBBB
ATOM	5548	NH1	ARG	В	231	-3.049	83.200	23.248	1.00 53.42	BBBB
ATOM	5549	NH2	ARG	В	231	-2.795	85.248	22.248	1.00 53.52	BBBB
ATOM	5550	С	ARG	В	231	-1.187	79.130	24.278	1.00 43.55	BBBB
ATOM	5551	0			231	-1.695	79.469	25.342	1.00 42.24	BBBB
ATOM	5552	N			232	0.034	78.630	24.203	1.00 44.94	BBBB
ATOM	5553	CA			232	0.864	78.492	25.389	1.00 47.41	BBBB
MOTA	5554	CB			232	1.708	77.227	25.281	1.00 47.36	BBBB
MOTA	5555	CG			232	2.298	76.811	26.598	1.00 47.74	BBBB
MOTA	5556		ASP		232	3.333	77.380	26.997	1.00 48.97	BBBB
ATOM	5557 5558	C C	ASP ASP			1.716	75.914	27.237	1.00 47.57 1.00 48.77	BBBB
ATOM ATOM	5559	0			232 232	1.734 1.213	79.744 80.841	25.411 25.226	1.00 48.77	BBBB BBBB
ATOM	5560	N			233	3.037	79.626	25.643	1.00 30.27	BBBB
ATOM	5561	CA			233	3.829	80.846	25.612	1.00 48.34	BBBB
ATOM	5562	СВ			233	5.237	80.633	26.188	1.00 50.32	BBBB
ATOM	5563	CG			233	6.016	79.428	25.706	1.00 54.27	BBBB
ATOM	5564	CD			233	7.266	79.191	26.558	1.00 57.58	BBBB
ATOM	5565	OE1	GLU	В	233	8.114	80.115	26.654	1.00 58.04	BBBB
ATOM	5566	OE2	GLU	В	233	7.398	78.083	27.137	1.00 58.47	BBBB
ATOM	5567	C	GLU	В	233	3.860	81.290	24.154	1.00 46.38	BBBB
ATOM	5568	0			233	3.052	82.122	23.746	1.00 44.38	BBBB
MOTA	5569	N			234	4.755	80.722	23.357	1.00 45.06	BBBB
ATOM	5570	CA			234	4.814	81.078	21.941	1.00 43.44	BBBB
ATOM	5571	CB			234	6.201	81.556	21.562	1.00 42.93	BBBB
ATOM	5572	C			234	4.453	79.865	21.108	1.00 41.93	BBBB
ATOM	5573 5574	0			234	4.974	79.689 79.031	20.008	1.00 43.06	BBBB
ATOM ATOM	5574 5575	N CA			235 235	3.563 3.165	77.833	21.631 20.913	1.00 38.96 1.00 37.24	BBBB BBBB
ATOM	5576	CB			235	3.800	76.572	21.549	1.00 37.24	BBBB
ATOM	5577		THR			3.098	75.403	21.112	1.00 38.71	BBBB
ATOM	5578		THR			3.750	76.652	23.059	1.00 39.45	BBBB
ATOM	5579	С			235	1.667	77.600	20.798	1.00 34.33	BBBB
ATOM	5580	0	THR	В	235	0.882	78.016	21.640	1.00 34.08	BBBB
ATOM	5581	N	CYS	В	236	1.278	76.922	19.735	1.00 31.58	BBBB
ATOM	5582	CA	CYS	В	236	-0.110	76.605	19.530	1.00 30.50	BBBB
ATOM	5583	С			236	-0.328	75.161	19.961	1.00 30.62	BBBB
ATOM	5584	0			236	0.238	74.248	19.372	1.00 30.17	BBBB
ATOM	5585	CB	CYS		236	-0.452	76.793	18.066	1.00 29.90	BBBB
ATOM	5586	SG			236 237	-0.397	78.529	17.537	1.00 30.86	EBBB
ATOM ATOM	5587 5588	N CA	LYS	_		-1.134 -1.392	74.956 73.611	21.000 21.512	1.00 30.16 1.00 30.21	BBBB BBBB
ATOM	5589	CB	LYS		237	-0.955	73.488	22.968	1.00 27.01	BBBB
- ATOM -	5590 -				237-				1.00 24.22	· - · BBBB · -
ATOM	5591	CD	LYS		237	1.409	74.113	23.303	1.00 23.92	BBBB
ATOM	5592	CE	LYS	В	237	2.547	73.697	24.188	1.00 24.67	BBBB
MOTA	5593	NZ	LYS	В	237	3.128	72.391	23.773	1.00 25.54	BBBB
MOTA	5594	С	LYS	В	237	-2.843	73.168	21.431	1.00 32.02	BBBB
MOTA	5595	0	LYS			-3.765	73.988	21.479	1.00 33.79	BBBB
ATOM	5596	N			238	-3.031	71.856	21.332	1.00 31.70	BBBB
ATOM	5597	CA			238	-4.355	71.272	21.262	1.00 32.15	BBBB
ATOM	5598	CB			238	-4.265	69.883	20.640	1.00 33.31	BBBB
ATOM	5599	CG			238	-5.620	69.277	20.377	1.00 34.04	BBBB
ATOM ATOM	5600 5601		ASP ASP			-6.395 -5.910	69.862 68.214	19.591 20.957	1.00 34.61 1.00 33.95	BBBB BBBB
ATOM	5602	C			238	-4.894	71.183	22.687	1.00 31.92	BBBB
ATOM	5603	0			238	-6.095	71.008	22.923	1.00 31.79	BBBB
ATOM	5604	N			239	-3.977	71.306	23.637	1.00 31.23	BBBB
ATOM	5605	CA			239	-4.305	71.256	25.051	1.00 31.25	BBBB
ATOM	5606	CB	THR	В	239	-4.529	69.820	25.508	1.00 31.46	BBBB
MOTA	5607	OG1	THR	В	239	-3.472	69.000	24.997	1.00 33.37	BBBB
ATOM	5608	CG2	THR	В	239	-5.860	69.295	25.009	1.00 32.91	BBBB
ATOM	5609	С			239	-3.142	71.838	25.851	1.00 31.36	BBBB
MOTA	5610	0			239	-1.998	71.888	25.388	1.00 31.73	BBBB
ATOM	5611	N			240	-3.433	72.293	27.058	1.00 30.60	BBBB
ATOM	5612	CA			240	-2.381	72.849	27.884	1.00 28.83	BBBB
ATOM	5613	C			240	-1.671	71.718	28.614	1.00 26.60	BBBB
ATOM ATOM	5614 5615	O CB	CYS		240	-2.320 -2.973	70.837	29.178	1.00 24.84	BBBB BBBB
ATOM	5616	CB SG			240	-2.973	73.835 75.377	28.896 28.182	1.00 29.85	BBBB
ATOM	5617	N N			240	-0.327	71.729	28.182	1.00 25.15	BBBB
ATOM	5618	CD			241	0.441	72.768	27.901	1.00 26.50	BBBB
ATOM	5619				241	0.583	70.762	29.235	1.00 25.78	BBBB
ATOM	5620	CB			241	1.894	71.517	29.263	1.00 24.59	BBBB

DEA.										
TOM	5621	CG	PRO	В	241	1.860	72.231	27.975	1.00 26.47	BBBB
ATOM	5622	C	PRO			0.104	70.369	30.632	1.00 24.82	BBBB
ATOM ATOM	5623 5624	O N	PRO PRO			0.148 -0.330	71.175 69.105	31.565 30.795	1.00 23.25 1.00 23.99	BBBB BBBB
ATOM	5625	CD	PRO			-0.324	68.069	29.756	1.00 23.99	BBBB
ATOM	5626	CA	PRO			-0.845	68.548	32.047	1.00 24.61	BBBB
ATOM	5627	CB	PRO			-1.211	67.122	31.668	1.00 23.97	BBBB
ATOM ATOM	5628	CG	PRO			-1.475	67.213	30.202	1.00 24.96	BBBB
ATOM	5629 5630	0	PRO PRO			0.091 1.258	68.593 68.250	33.225 33.111	1.00 23.93	BBBB BBBB
ATOM	5631	N	LEU			-0.447	69.028	34.358	1.00 23.38	BBBB
MOTA	5632	CA	LEU	В	243	0.304	69.110	35.593	1.00 26.06	BBBB
ATOM	5633	CB	LEU			-0.638	69.414	36.755	1.00 24.94	BBBB
ATOM ATOM	5634 5635	CG	LEU LEU			-1.213 -1.758	70.821 71.053	36.820 38.229	1.00 23.55	BBBB
ATOM	5636		LEU			-0.126	71.837	36.486	1.00 22.03 1.00 22.79	BBBB BBBB
ATOM	5637	C	LEU			1.022	67.789	35.845	1.00 27.80	BBBB
ATOM	5638	0	LEU			2.251	67.748	35.848	1.00 29.52	BBBB
MOTA MOTA	5639 5640	N	MET			0.252	66.722	36.072	1.00 28.01	BBBB
ATOM	5641	CA CB	MET MET			0.815 -0.157	65.391 64.516	36.289 37.077	1.00 28.10	BBBB BBBB
MOTA	5642	CG	MET			-0.349	64.930	38.535	1.00 33.69	BBBB
ATOM	5643	SD	MET			1.164	64.878	39.553	1.00 38.38	BBBB
ATOM	5644	CE	MET			1.564	66.625	39.632	1.00 37.21	BBBB
ATOM ATOM	5645 5646	С О	MET MET			1.108 1.056	64.740 65.391	34.941	1.00 27.55	BBBB
ATOM	5647	N	LEU			1.405	63.449	33.907 34.949	1.00 27.42 1.00 27.45	BBBB BBBB
ATOM	5648	CA	LEU			1.717	62.736	33.709	1.00 25.95	BBBB
ATOM	5649	CB	LEU			2.949	63.367	33.048	1.00 24.40	BBBB
ATOM ATOM	5650 5651	CG	LEU			2.920	63.628	31.542	1.00 22.88	BBBB
ATOM	5652		LEU			1.741 4.175	64.486 64.313	31.191 31.126	1.00 23.89 1.00 23.50	BBBB BBBB
ATOM	5653	C	LEU			1.992	61.273	34.045	1.00 25.30	BBBB
MOTA	5654	0	LEU			3.056	60.955	34.566	1.00 23.59	BBBB
ATOM	5655	N	TYR			1.020	60.407	33.744	1.00 24.68	BBBB
ATOM ATOM	5656 5657	CA CB	TYR TYR			1.085 -0.082	58.967 58.252	34.016 33.378	1.00 23.89	BBBB BBBB
ATOM	5658	CG	TYR			-0.150	56.782	33.689	1.00 25.24	BBBB
MOTA	5659		TYR			-0.770	56.325	34.855	1.00 26.19	BBBB
ATOM ATOM	5660 5661		TYR			-0.945	54.968	35.097	1.00 26.31	BBBB
ATOM	5662		TYR TYR			0.314 0.147	55.837 54.474	32.775 33.004	1.00 26.19	BBBB BBBB
ATOM	5663	CZ	TYR			-0.492	54.048	34.166	1.00 28.23	BBBB
MOTA	5664	ОН	TYR			-0.726	52.703	34.368	1.00 32.13	BBBB
ATOM - ATOM	-5665 - 5666	С 0	TYR TYR			2.351	58.302	33.543	1.00 24.99	BBBB
ATOM	5667	N	ASN			2.829 2.872	58.548 57.423	32.441 34.382	1.00 25.75 1.00 24.95	BBBB BBBB
ATOM	5668	CA	ASN			4.102	56.733	34.097	1.00 25.31	BBBB
MOTA	5669	CB	ASN			5.003	56.850	35.317	1.00 25.90	BBBB
ATOM ATOM	5670 5671	CG OD1	ASN ASN			6.412	56.417		1.00 27.21	BBBB
ATOM	5672		ASN			6.648 7.368	55.433 57.140	34.343 35.614	1.00 27.71 1.00 26.90	BBBB BBBB
ATOM	5673	C	ASN			3.798	55.281	33.805	1.00 26.23	BBBB
MOTA	5674	0	ASN			3.486	54.524	34.692	1.00 27.58	BBBB
ATOM ATOM	5675 5676	N CD	PRO PRO			3.901 4.289	54.864	32.552	1.00 28.38	BBBB
ATOM	5677	CA	PRO			3.612	55.615 53.463	31.353 32.224	1.00 28.12 1.00 29.88	BBBB BBBB
MOTA	5678	CB	PRO			3.829	53.414	30.712	1.00 30.15	BBBB
MOTA	5679	CG	PRO			3.602	54.834	30.275	1.00 28.88	BBBB
ATOM ATOM	5680 5681	C 0	PRO PRO			4.476	52.418	32.948	1.00 30.52	BBBB
ATOM	5682	N	THR			4.021 5.714	51.320 52.769	33.196 33.281	1.00 32.33	BBBB BBBB
ATOM	5683	CA	THR			6.651	51.858	33.945	1.00 31.64	BBBB
ATOM	5684	CB	THR			8.108	52.292	33.691	1.00 32.74	BBBB
ATOM	5685		THR			8.507	51.907		1.00 32.45	BBBB
ATOM ATOM	5686 5687	CG2	THR THR			9.042 6.505	51.675 51.690	34.734 35.455	1.00 33.08 1.00 32.06	BBBB
ATOM	5688	Ö	THR			6.834	50.648	35.455	1.00 32.06	BBBB BBBB
ATOM	5689	N	THR			6.028	52.718	36.137	1.00 32.83	BBBB
ATOM	5690	CA	THR			5.878	52.663	37.578	1.00 31.01	BBBB
ATOM ATOM	5691 5692	CB	THR			6.700 6.788	53.798	38.214	1.00 29.66	BBBB
ATOM	5692 5693		THR			6.788	53.593 55.139	39.624 37.942	1.00 32.48 1.00 26.62	BBBB BBBB
ATOM	5694	С	THR			4.404	52.771	37.975	1.00 31.25	BBBB
ATOM	5695	0	THR	В	250	4.068	52.982	39.130	1.00 31.07	BBBB

MOTA	5696	N	TYR	В	251	3.535	52.604	36.990	1.00 31.81	BBBB	
ATOM	5697	CA	TYR			2.090	52.683	37.159	1.00 31.87	BBBE	
ATOM	5698	CB	TYR			1.519	51.325	37.543	1.00 33.05	BBBB	
ATOM	5699	CG	TYR			1.656	50.285	36.465	1.00 34.20 1.00 33.93	BBBE BBBE	
MOTA	5700	CD1	TYR			2.914	49.796	36.096 35.109	1.00 33.93	BBBE	
ATOM	5701	CE1	TYR			3.047 0.531	48.823 49.779	35.819	1.00 33.68	BBBE	
ATOM	5702	CD2 CE2	TYR TYR			0.650	48.803	34.826	1.00 34.88	BBBE	
ATOM ATOM	5703 5704	CZ	TYR			1.909	48.329	34.477	1.00 34.89	BBBB	3
ATOM	5705	OH	TYR			2.030	47.368	33.503	1.00 33.50	BBBB	
ATOM	5706	C	TYR			1.558	53.741	38.109	1.00 31.84	BBBB	
MOTA	5707	0			251	0.493	53.582	38.692	1.00.32.93	BBB	
ATOM	5708	N			252	2.301	54.821	38.284	1.00 31.40 1.00 31.92	BBBI BBBI	
MOTA	5709	CA			252	1.808	55.904 55.930	39.106 40.460	1.00 31.32	BBBI	
ATOM	5710	CB	GLN GLN		252 252	2.514 4.011	56.047	40.431	1.00 35.01	BBB	
ATOM	5711 5712	CG CD			252	4.585	56.090	41.839	1.00 37.86	BBBI	
ATOM ATOM	5713		GLN			4.269	56.990	42.625	1.00 39.67	BBBI	В
ATOM	5714		GLN			5.423	55.112	42.170	1.00 38.74	BBBI	
ATOM	5715	С	GLN	В	252	1.948	57.243	38.360	1.00 32.30	BBB	
MOTA	5716	0			252	2.409	57.297	37.220	1.00 30.23 1.00 33.73	BBBI BBBI	
MOTA	5717	N			253	1.522	58.326	38.994 38.366	1.00 33.73	BBB:	
MOTA	5718	CA			253	1.596 0.432	59.631 60.488	38.823	1.00 33.17	BBB	
ATOM	5719	CB CG			253 253	-0.139	61.279	37.713	1.00 34.85	BBB	
ATOM ATOM	5720 5721	SD			253	-0.753	60.120	36.552	1.00 37.25	BBB	В
ATOM	5722	CE			253	-2.309	59.857	37.218	1.00 38.52	BBB	В
ATOM	5723	c			253	2.886	60.341	38.705	1.00 34.16	BBB	
MOTA	5724	0	MET	· B	253	3.437	60.138	39.779	1.00 34.77	BBB	
ATOM	5725	N			254	3.367	61.172	37.786	1.00 34.97	BBB BBB	
ATOM	5726	CA			254	4.585	61.932	38.019	1.00 36.06 1.00 35.07	BBB	
ATOM	5727	CB			254	5.705 6.380	61.453 60.197	37.108 37.628	1.00 33.96	BBB	
ATOM	5728	CG			254 254	7.241	59.640	36.917	1.00 33.29	BBB	
ATOM ATOM	5729 5730				254	6.052	59.768	38.752	1.00 34.00	BBB	зB
ATOM	5731	C			254	4.321	63.412	37.818	1.00 38.42	BBB	
ATOM	5732	0			254	3.289	63.797	37.281	1.00 38.79	BBB	
ATOM	5733	N			255	5.252	64.242	38.261	1.00 40.51	BBE BBE	
MOTA	5734	CA			255	5.078	65.678	38.163	1.00 43.14 1.00 42.69	BBB	
ATOM	5735	CB			255	5.978	66.394 67.843	39.165 39.284	1.00 42.03	BBE	
ATOM	5736				3 255 3 255	5.562 5.908	65.696	40.507	1.00 42.91	BBE	
ATOM ATOM	5737 5738	C			3 255	5.344	66.244	36.775	1.00 45.81	BBE	3B
ATOM	5739	o			3 255	4.449	66.814	36.155	1.00 46.76	BBE	
ATOM	5740				3 256	 6.574	-66:102	36.291	1.00 48-01	BBE	
ATOM	5741	CA	ASI	1 E	3 256	6.931	66.611	34.966	1.00 50.39	BBE	
MOTA	5742	CB			3 256	6.303	65.725	33.874	1.00 54.07	BBE BBE	
MOTA	5743	CG	ASI	1 E	3 256	6.909	64.311	33.832	1.00 55.04 1.00 52.86	BBE	
ATOM	5744				256	6.586 7.797	63.451 64.077	34.660 32.860	1.00 55.74	BBI	
ATOM	5745				3 256 3 256	6.528	68.088		1.00 49.68	BBB	
MOTA MOTA	5746 5747	C			3 256	5.371	68.409		1.00 49.11	BBB	3B
ATOM	5748	N			3 257	7.517	68.990		1.00 49.29	BBI	
ATOM	5749				в 257	8.872	68.417		1.00 49.49	BBI	
MOTA	5750	CA			B 257	7.618	70.456		1.00 48.97	BBI BBI	
ATOM	5751				B 257	9.122	70.686		1.00 49.73 1.00 50.08	BBI	
ATOM	5752				B 257	9.685	69.567			BBI	
MOTA	5753				B 257	6.864 6.376	71.313 72.386			BBI	
ATOM	5754				B 257 B 258	6.785	70.880			BBI	
ATOM ATOM	5755 5756				B 258	6.113	71.694			BB!	вв
ATOM	5757				B 258	6.350	71.095			.BB	вв
ATOM	5758				B 258	7.831	70.947			BB	
ATOM	5759				B 258	8.608	72.239	30.150		BB:	
ATOM	5760		1 GL	U	B 258	8.540	73.164			BB	
ATOM	5761		2 GL	U	B 258	9.274	72.334		1.00 51.63	BB	
MOTA	5762				B 258	4.626	71.902				BB BB
MOTA	5763				B 258	3.880	72.211				BB
MOTA	5764		GL	Y	B 259	4.207	71.754				BB
ATOM	5765				B 259	2.809 2.340					BB
MOTA	5766 5767				B 259 B 259	3.079				BB	BB
ATOM ATOM	5768				B 260	1.098			1.00 33.20		BB
ATOM	5769		LY	S	B 260	0.506			1.00 31.73		BB
ATOM	.5770		LY	S	в 260	0.719		31.406	1.00 32.19	BB	BB

ATOM	5771	CG	LYS B	260	2.168	75.693	31.034	1.00 33.45	BBBB
ATOM	5772	CD	LYS B		2.671	77.005	31.636	1.00 35.88	BBBB
ATOM	5773	CE	LYS B		4.168	77.217	31.371	1.00 37.63	BBBB
ATOM	5774	NZ	LYS B	260	4.544	77.146	29.921	1.00 36.90	BBBB
ATOM	5775	С	LYS B	260	-0.986	74.777	33.110	1.00 31.80	BBBB
ATOM	5776	0	LYS B	260	-1.565	73.693	33.068	1.00 31.25	BBBB
ATOM	5777	N	TYR B	261	-1.613	75.907	33.408	1.00 31.52	BBBB
ATOM	5778	CA	TYR B	261	-3.035	75.892	33.693	1.00 31.81	BBBB
ATOM	5779	СВ	TYR B	261	-3.345	76.707	34.956	1.00 32.28	BBBB
ATOM	5780	CG	TYR B	261	-2.831	76.108	36.247	1.00 30.77	BBBB
ATOM	5781	CD1	TYR B	261	-1.514	76.296	36.644	1.00 30.43	BBBB
ATOM	5782	CE1	TYR B	261	-1.025	75.720	37.792	1.00 28.46	BBBB
ATOM	5783	CD2	TYR B	261	-3.650	75.324	37.049	1.00 29.63	BBBB
ATOM	5784	CE2	TYR B	261	-3.168	74.746	38.196	1.00 29.53	BBBB
ATOM	5785	CZ	TYR B	261	-1.850	74.944	38.559	1.00 29.22	BBBB
MOTA	5786	OH	TYR B	261	~1.333	74.335	39.676	1.00 30.60	BBBB
ATOM	5787	С	TYR B	261	-3.861	76.414	32.517	1.00 32.46	BBBB
MOTA	5788	0	TYR B	261	-3.429	77.310	31.777	1.00 30.84	BBBB
ATOM	5789	И	SER B	262	-5.061	75.844	32.378	1.00 32.23	BBBB
MOTA	5790	CA	SER B	262	-6.000	76.179	31.310	1.00 31.71	BBBB
MOTA	5791	CB	SER B	262	-6.937	74.997	31.022	1.00 31.61	BBBB
ATOM	5792	OG	SER B	262	-6.397	74.116	30.052	1.00 34.61	BBBB
ATOM	5793	С	SER B	262	-6.859	77.390	31.568	1.00 30.78	BBBB
MOTA	5794	0	SER B	262	-7.956	77.268	32.089	1.00 31.41	BBBB
MOTA	5795	N	PHE B	263	-6.379	78.564	31.195	1.00 30.44	BBBB
ATOM	5796	CA	PHE B	263	-7.191	79.751	31.389	1.00 30.48	BBBB
MOTA	5797	CB	PHE B	263	-6.374	80.864	32.055	1.00 27.55	BBBB
MOTA	5798	CG	PHE B	263	-7.175	82.100	32.358	1.00 23.44	BBBB
MOTA	5799	CD1	PHE B	263	-8.490	82.000	32.768	1.00 20.60	BBBB
MOTA	5800	CD2	PHE B	263	-6.608	83.363	32.234	1.00 23.74	BBBB
ATOM	5801	CE1			-9.227	83.123	33.051	1.00 19.48	BBBB
ATOM	5802	CE2			-7.342	84.501	32.516	1.00 21.48	BBBB
MOTA	5803	CZ	PHE B		-8.657	84.378	32.927	1.00 20.24	BBBB
ATOM	5804	С	PHE B		-7.769	80.215	30.049	1.00 31.56	BBBB
MOTA	5805	0	PHE B		-7.050	80.711	29.170	1.00 31.67	BBBB
ATOM	5806	N	GLY B		-9.075	80.029	29.891	1.00 31.60	BBBB
ATOM	5807	CA	GLY B		-9.721	80.437	28.661	1.00 32.58	BBBB
ATOM	5808	С	GLY B		-9.086	79.786	27.455	1.00 32.74	BBBB
ATOM	5809	0	GLY B		-9.330	78.619	27.193	1.00 33.50	BBBB
ATOM	5810	N	ALA B		-8.267	80.527	26.721	1.00 32.63	BBBB
ATOM	5811	CA	ALA B		-7.624	79.967	25.540	1.00 32.82	BBBB
ATOM	5812	CB	ALA B		-8.092	80.690	24.293	1.00 32.58	BBBB
ATOM	5813	C	ALA B		-6.108	80.013	25.630	1.00 32.85	BBBB
ATOM	5814	0	ALA B		-5.402	79.783	24.650	1.00 33.44	BBBB
ATOM								-100-32-34-	-BBBB
ATOM ATOM	5816	CA	THR B		-4.173	80.360	26.996	1.00 33.97	BBBB
ATOM	5817 5818	CB	THR B		-3.766	81.690	27.604	1.00 35.16	BBBB
ATOM	5819				-4.619	81.972	28.721	1.00 35.86 1.00 37.32	BBBB
ATOM	5820	C	THR E		-3.876 -3.716	82.793 79.262	26.585 27.948	1.00 37.32	BBBB
ATOM	5821	Ö	THR B		-4.532	78.582		1.00 33.49	BBBB
ATOM	5822	N	CYS E		-2.406	79.076	28.568 28.041	1.00 34.20	BBBB BBBB
ATOM	5823	CA	CYS E		-1.858	78.115	28.976	1.00 32.24	BBBB
ATOM	5824	C.	CYS E		-1.008	78.934	29.945	1.00 32.03	BBBB
ATOM	5825	Ö	CYS E		0.140	79.284	29.667	1.00 32.10	BBBB
ATOM	5826	СВ	CYS E		-1.029	77.061	28.256	1.00 31.33	BBBB
ATOM	5827	SG	CYS E		-2.008	76.050	27.114	1.00 29.65	BBBB
MOTA	5828	N	VAL E		-1.607	79.239	31.088	1.00 32.98	BBBB
ATOM	5829	CA	VAL E		-0.979	80.053	32.114	1.00 34.52	BBBB
ATOM	5830	CB	VAL E		-2.072	80.785	32.910	1.00 32.91	BBBB
ATOM	5831		VAL E		-3.209	81.144	31.992	1.00 32.20	BBBB
ATOM	5832		VAL E		-2.588	79.913	34.017	1.00 33.36	BBBB
ATOM	5833	С	VAL E	268	-0.095	79.261	33.083	1.00 36.42	BBBB
ATOM	5834	0	VAL E		-0.102	78.029	33.086	1.00 37.76	BBBB
ATOM	5835	N	LYS E		0.665	79.978	33.907	1.00 37.67	BBBB
ATOM	5836	CA	LYS E		1.532	79.346	34.900	1.00 37.66	BBBB
ATOM	5837	CB	LYS E	269	2.916	80.015	34.921	1.00 37.26	BBBB
ATOM	5838	CG	LYS E		2.891	81.537	35.043	0.01 36.86	BBBB
ATOM	5839	CD	LYS E	269	2.379	81.997	36.399	0.01 36.54	BBBB
ATOM	5840	CE	LYS E	3 269	2.329	83.515	36.488	0.01 36.35	BBBB
ATOM	5841	NZ	LYS E		1.795	83.974	37.800	0.01 36.22	BBBB
ATOM	5842	С	LYS E		0.895	79.383	36.293	1.00 37.17	BBBB
ATOM	5843	0	LYS E		1.467	78.867	37.246	1.00 37.98	BBBB
ATOM	5844	N	LYS E		-0.286	79.992	36.392	1.00 36.07	BBBB
ATOM	5845	CA	LYS E	3 270	-1.045	80.087	37.642	1.00 36.31	BBBB

70.00	OM.	5846	CB	LYS B	270	-0.329	81.002	38.643	1.00 35.48	BBBB
AT		5847		LYS B		-1.110	81.211	39.947	1.00 35.62	BBBB
AT		5848		LYS B		-0.374	82.110	40.926	1.00 35.25	BBBB
ATO				LYS B		-1.156	82.279	42.219	0.01 34.89	BBBB
ATO		5849		LYS B		-0.439	83.146	43.195	0.01 34.79	BBBB
AT		5850		LYS B		-2.466	80.623	37.398	1.00 37.45	BBBB
AT		5851		LYS B		-2.639	81.695	36.812	1.00 38.20	BBBB
AT		5852	.0	CYS B		-3.488	79.893	37.833	1.00 37.90	BBBB
AT		5853	N			-4.847	80.380	37.635	1.00 39.89	BBBB
AT		5854	CA	CYS B		-5.063	81.679	38.371	1.00 41.63	BBBB
ΑT		5855	C			-4.917	81.742	39.586	1.00 41.83	BBBB
AT		5856	0	CYS B		-5.887	79.385	38.129	1.00 40.31	BBBB
PΑ		5857	CB	CYS B		-6.305	78.120	36.909	1.00 42.01	BBBB
ΑT		5858	SG	CYS B		-5.426	82.741	37.644	1.00 44.20	BBBB
ΑT		5859	И	PRO B		-5.715	82.816	36.199	1.00 45.56	BBBB
	OM	5860	CD	PRO B		-5.657	84.034	38.290	1.00 44.59	BBBB
	OM	5861	CA	PRO E		-6.387	84.816	37.210	1.00 44.78	BBBB
	MO	5862	CB ·	PRO E		-5.734	84.307	35.955	1.00 45.11	BBBB
	MO	5863	CG	PRO. E		-6.518	83.800	39.515	1.00 45.31	BBBB
	MO	5864	C	PRO E		-7.390	82.930	39.484	1.00 46.55	BBBB
	MO	5865	0	PRO E		-6.277	84.543	40.592	1.00 45.55	BBBB
	MO	5866	N	ARG E		-7.084	84.375	41.798	1.00 46.51	BBBB
	'OM	5867	CA	ARG E			85.410	42.851	1.00 45.88	BBBB
	MO	5868	CB	ARG E		-6.679	85.323	43.284	0.01 46.49	BBBB
	MO	5869	CG	ARG E		-5.222		43.204	0.01 46.78	BBBB
	MO	5870	CD	ARG E		-4.907	83.972	44.310	0.01 47.15	BBBB
	'OM	5871	NE	ARG E		-3.507	83.858	45.240	0.01 47.13	BBBB
	MO	5872	CZ	ARG E		-2.926	84.611	45.246	0.01 47.43	BBBB
	MO	5873		ARG E		-3.624	85.542	45.535	0.01 47.45	BBBB
	MO	5874		ARG E		-1.646	84.432	41.387	1.00 47.71	BBBB
	MO	5875	C		3 273	-8.552	84.551	40.194	1.00 50.07	BBBB
	MO	5876	0		3 273	-8.863	84.515	42.337	1.00 47.78	BBBB
	MOT	5877	N		3 274	-9.463	84.734		1.00 46.97	BBBB
	POM	5878	CA		B 274	-10.878	84.907	41.981 41.119	1.00 46.27	BBBB
	POM	5879	CB		B 274	-11.076	86.163		0.01 46.43	BBBB
A.	MOT	5880	CG		B 274	-10.642	87.433	41.829	0.01 46.45	BBBB
A?	POM	5881	OD1	ASN I	B 274	-10.705	88.525	41.264	0.01 46.29	BBBB
A'	rom	5882		ASN 1		-10.199	87.296	43.074	1.00 46.32	BBBB
A.	rom	5883	С		B 274	-11.387	83.696	41.216	1.00 46.13	BBBB
A.	rom	5884	0		B 274	-12.566	83.368	41.282	1.00 46.42	BBBB
A.	rom	5885	N		B 275	-10.488	83.047	40.482	1.00 46.42	BBBB
A!	rom	5886	CA		B 275	-10.806	81.857	39.710	1.00 49.81	BBBB
A.	TOM	5887	CB		B 275	-9.956	81.797	38.439		BBBB
A.	TOM	5888	CG		B 275	-10.491	82.621	37.289	1.00 53.93 1.00 54.16	BBBB
A'	TOM	5889		<b>T</b> YR		-9.864	83.808	36.902		· BBBB -
` A'	TOM	5890		TYR		 -10.373			1.00.56.54	BBBB
A'	TOM	5891		TYR		-11.641	82.220	36.596	1.00 54.61	BBBB
A	TOM	5892	CE 2		B 275	-12.159	82.979	35.549	1.00 55.74	BBBB
A	TOM	5893	CZ		В 275	-11.523	84.157	35.181	1.00 57.07	
A <sup>r</sup>	MOT	5894	OH		B 275	-12.032	84.920	34.150	1.00 57.61	BBBB
Α	TOM	5895	С		B 275	-10.557	80.593	40.525	1.00 45.17	BBBB
A	MOT	5896	0		B 275	-9.558	80:477	41.238	1.00 45.56	BBBB
A	MOT	5897	N		B 276	-11.477	79.646	40.413	1.00 42.15	
	MOT	5898	CA		B 276	-11.367	78.379	41.110	1.00 38.89 1.00 37.54	BBBB BBBB
A	TOM	5899	CB		B 276	-12.683	77.623	41.027	1.00 37.34	BBBB
A	TOM	5900	CG1	VAL	в 276	-12.626	76.391	41.892		BBBB
A	MOT	5901	CG2		B 276	-13.822	78.537	41.419	1.00 36.09	
A	MOT	5902	C		B 276	-10.285	77.524	40.453	1.00 38.51	BBBB BBBB
A	MOT	5903	0	VAL	B 276	-10.379	77.221	39.272	1.00 38.90	
A	MOT	5904	N	VAL	B 277	-9.261	77.139	41.207		BBBB
A	MOT	5905	CA	VAL	B 277	-8.193	76.310			BBBB
A	MOT	5906	CB	VAL	B 277	-6.848	76.681	_		BBBB
P	MOT	5907	CG:	LVAL	B 277	-5.735	75.896			BBBB
P	MOTA	5908	CG	Z VAL	B 277	-6.608	78.155			BBBB
	MOT	5909	С	VAL	B 277	-8.478	74.839			BBBB
	MOTA	5910		VAL	B 277	-8.657	74.451			BBBB
	MOTA	5911		THR	B 278	-8.514	74.016			BBBB
	MOTA	5912		THR	B 278	-8.804	72.588			BBBB
	MOTA	5913			B 278	-9.685				BBBB
	MOTA	5914			в 278	-8.891	71.869			BBBB
	MOTA	5915			B 278	-10.819				BBBB
	MOTA	5916			B 278	-7.610	71.638			BBBB
	MOTA	5917			B 278	-6.444				BBBB
	MOTA	5918		ASP	B 279	-7.936				BBBB
	MOTA	5919			B 279	-6.937				BBBB
	MOTA	5920			B 279	-7.472	68.147	41.033	1.00 48.99	BBBB
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Name									
ATOM   5922   OIL ASP B 279	MOPA	5021	CG ACD	D 270	_0 100	68 638	42 271	1 00 50 86	BBBB
Name									
Name									
NTOM   5225   O   ASP   B 279   -7, 375   68, 345   38, 004   1.00   47, 16   BBBB   ATOM   5227   6   HTS   B 280   -4, 628   68, 590   37, 236   1.00   48, 05   BBBB   ATOM   5227   68, 1818   B 280   -4, 628   68, 590   37, 236   1.00   48, 05   BBBB   ATOM   5290   CO   HTS   B 280   -4, 628   68, 590   37, 236   1.00   48, 73   BBBB   ATOM   5290   CO   HTS   B 280   -4, 633   66, 64   36, 895   1.00   47, 32   BBBB   ATOM   5391   CO   HTS   B 280   -4, 60   65, 64   36, 895   1.00   47, 32   BBBB   ATOM   5391   CO   HTS   B 280   -4, 60   63, 875   56, 764   1.00   45, 75   BBBB   ATOM   5391   CE   HTS   B 280   -4, 60   63, 875   56, 764   1.00   45, 75   BBBB   ATOM   5393   NEZ   HTS   B 280   -4, 404   63, 875   56, 764   1.00   45, 74   BBBB   ATOM   5393   NEZ   HTS   B 280   -4, 404   63, 875   56, 286   1.00   48, 76   BBBB   ATOM   5393   NEZ   HTS   B 280   -3, 797   69, 639   35, 230   1.00   49, 76   BBBB   ATOM   5393   CA   GIY   B 281   -4, 714   72, 127   35, 812   1.00   44, 61   BBBB   ATOM   5393   CA   GIY   B 281   -4, 714   72, 127   35, 812   1.00   44, 61   BBBB   ATOM   5393   CA   GIY   B 281   -5, 273   73, 407   33, 917   1.00   43, 66   BBBB   ATOM   5394   CA   SER   B 282   -7, 567   74, 512   34, 893   1.00   34, 36   BBBB   ATOM   5340   CA   SER   B 282   -7, 567   74, 512   34, 893   1.00   34, 36   BBBB   ATOM   5340   CA   SER   B 282   -9, 015   74, 921   35, 812   1.00   34, 66   BBBB   ATOM   5340   CA   SER   B 282   -9, 015   74, 921   35, 812   1.00   34, 66   BBBB   ATOM   5340   CA   SER   B 282   -9, 015   74, 921   35, 812   1.00   34, 66   BBBB   ATOM   5340   CA   SER   B 282   -9, 015   74, 921   35, 812   1.00   36, 67   BBBB   ATOM   5340   CA   SER   B 282   -9, 015   74, 921   36, 738   1.00   36, 67   BBBB   ATOM   5340   CA   SER   B 282   -9, 015   74, 921   36, 738   1.00   36, 67   BBBB   ATOM   5340   CA   SER   B 283   -9, 151   77, 159   36, 67   1.00   36, 67   BBBB   ATOM   5340   CA   SER   B 283   -9, 151   77, 159   36, 67   1.00   36	ATOM	5923	OD2 ASP	В 279	-9.121	67.944			BBBB
Name	ATOM	5924	C ASP	B 279	-6.545	68.814	38.787	1.00 47.70	BBBB
ATOM         5926         N         HIS B         20         -5.256         68.953         38.903         1.00         48.90         BBBB           ATOM         5928         CA         HIS B         280         -4.628         68.959         37.236         1.00         49.95         BBBB           ATOM         5930         CD2 HIS B         280         -4.090         65.661         31.990         1.00         45.95         BBBB           ATOM         5931         NDI HIS B         280         -4.008         65.661         31.990         1.00         45.95         BBBB           ATOM         5931         CE HIS B         280         -4.604         63.875         36.764         1.00         45.74         BBBB           ATOM         5934         C HIS B         280         -4.434         69.785         36.285         1.00         46.74         BBBB           ATOM         5935         C HIS B         280         -4.434         69.785         36.285         1.00         46.90         BBBB           ATOM         5936         C G         GIY B         281         -4.91         70.952         36.628         1.00         46.90         BBBB         A		5925	O ASP	B 279	-7.375	68.345	38,004	1.00 47.16	BBBB
RTOM         5927         CA         HIS B         280         -4.628         68.590         37.236         1.00         49.57         BBBB           RTOM         5929         CB         HIS B         280         -4.833         66.064         36.695         1.00         45.75         BBBB           RTOM         5931         NDI HIS B         280         -4.008         65.661         37.890         1.00         45.95         BBBB           RTOM         5931         NDI HIS B         280         -5.186         64.922         36.207         1.00         45.93         BBBB           RTOM         5933         NEZ HIS B         280         -3.885         64.296         37.788         1.00         45.76         BBBB           ATOM         5935         N         GIR B         280         -3.797         69.639         38.230         1.00         46.76         BBBB           ATOM         5935         N         GIR B         281         -4.714         72.127         73.610         1.00         44.61         BBBB           ATOM         5940         N         SRE B         282         -5.619         73.000         35.50         1.00         44.61									
Name									
### ATOM	ATOM		CA HIS	B 280					
ATOM   5929   CG   HIS B   280	ATOM	5928	CB HIS	B 280	-5.358	67.427	36.531	1.00 49.57	BBBB
ATOM	МОТА	5929	CG HTS	B 280	-4.833	66.064	36.895	1.00 47.32	BBBB
NATION   5931   NOI HIS B   280   -5.186   64.922   36.207   1.00   45.93   BBBB   ATOM   5933   NEZ   HIS B   280   -3.885   64.296   37.788   1.00   45.74   BBBB   ATOM   5935   C   HIS B   280   -3.885   64.296   37.788   1.00   48.76   BBBB   ATOM   5935   C   HIS B   280   -3.797   69.639   35.230   1.00   49.27   BBBB   ATOM   5935   N   GLY B   281   -4.991   70.952   36.628   1.00   46.90   BBBB   ATOM   5936   N   GLY B   281   -4.714   72.127   35.812   1.00   44.61   BBBB   ATOM   5938   C   GLY B   281   -5.619   73.080   35.050   1.00   42.65   BBBB   ATOM   5939   C   GLY B   281   -5.619   73.080   35.050   1.00   43.66   BBBB   ATOM   5939   C   GLY B   281   -5.619   73.080   35.050   1.00   42.66   BBBB   ATOM   5940   N   SER B   282   -6.717   73.568   35.622   1.00   40.64   BBBB   ATOM   5942   C   B SER B   282   -6.717   73.568   35.622   1.00   40.64   BBBB   ATOM   5944   C   SER B   282   -6.381   73.771   33.616   1.00   35.48   BBBB   ATOM   5945   C   SER B   282   -9.081   72.673   34.349   1.00   32.03   BBBB   ATOM   5946   N   CYS B   283   -9.025   75.380   33.736   1.00   36.48   BBBB   ATOM   5946   N   CYS B   283   -9.025   75.930   35.361   1.00   36.67   BBBB   ATOM   5946   N   CYS B   283   -9.025   75.930   35.381   1.00   36.67   BBBB   ATOM   5946   N   CYS B   283   -7.299   79.1275   34.407   1.00   37.32   BBBB   ATOM   5946   N   CYS B   283   -7.299   79.1275   34.407   1.00   37.32   BBBB   ATOM   5946   N   CYS B   283   -7.299   79.1275   34.407   1.00   37.32   BBBB   ATOM   5956   C   C   C   S   S   S   S   -7.299   79.127   50.446   1.00   36.67   BBBB   ATOM   5956   C   C   C   S   S   S   S   -7.299   79.127   50.4467   1.00   37.32   BBBB   ATOM   5956   C   C   ATO   S   283   -7.299   79.121   35.433   1.00   36.67   BBBB   ATOM   5956   C   C   ATO   S   284   -11.880   77.541   36.190   1.00   31.44   BBBB   ATOM   5956   C   C   ATO   S   284   -11.880   77.541   36.190   1.00   31.44   BBBB   ATOM   5956   C   ATO   S   284   -11.880   77.541									
NOTE   1932   CEL   HIS B   280   -4,604   63.875   36.764   1.00   45.74   BBBB   ATOM   5934   CE   HIS B   290   -4.434   69.785   36.285   1.00   48.76   BBBB   ATOM   5935   O   HIS B   290   -4.434   69.785   36.285   1.00   48.76   BBBB   ATOM   5936   N   GLY B   281   -4.991   70.952   36.628   1.00   46.90   BBBB   ATOM   5937   CA   GLY B   281   -4.991   70.952   36.628   1.00   46.90   BBBB   ATOM   5937   CA   GLY B   281   -4.991   70.952   36.628   1.00   44.61   BBBB   ATOM   5939   C   GLY B   281   -5.619   73.080   35.050   1.00   42.86   BBBB   ATOM   5939   O   GLY B   281   -5.619   73.080   35.050   1.00   42.86   BBBB   ATOM   5939   O   GLY B   281   -5.619   73.080   35.050   1.00   40.64   BBBB   ATOM   5940   N   SER B   282   -6.717   73.568   35.622   1.00   40.64   BBBB   ATOM   5941   CA   SER B   282   -6.717   73.568   35.622   1.00   40.64   BBBB   ATOM   5941   CA   SER B   282   -8.381   73.771   33.816   1.00   36.48   BBBB   ATOM   5944   CA   SER B   282   -9.496   76.380   35.736   1.00   36.48   BBBB   ATOM   5944   CA   SER B   282   -9.496   76.380   35.736   1.00   36.48   BBBB   ATOM   5944   CA   SER B   282   -9.496   76.580   36.738   1.00   36.75   BBBB   ATOM   5944   CA   SER B   282   -9.496   76.580   36.738   1.00   36.75   BBBB   ATOM   5944   CA   SER B   282   -9.496   76.580   36.388   1.00   36.75   BBBB   ATOM   5940   CA   CYS B   283   -9.662   76.642   35.388   1.00   36.75   BBBB   ATOM   5940   CA   CYS B   283   -9.662   76.642   35.388   1.00   36.75   BBBB   ATOM   5940   CA   CYS B   283   -9.564   77.59   36.048   1.00   38.60   BBBB   ATOM   5940   CA   CYS B   283   -9.564   77.59   36.648   1.00   38.60   BBBB   ATOM   5940   CA   CYS B   283   -9.564   77.59   36.648   1.00   38.60   BBBB   ATOM   5952   CA   ATOB   2844   -13.580   77.59   36.648   1.00   36.60   BBBB   ATOM   5954   CA   ATOB   2844   -13.580   77.59   36.648   1.00   36.60   BBBB   ATOM   5954   CA   ATOB   2844   -13.580   77.59   36.648   1.00   36.60   BBBB   AT									
RPOW   5933   M2   HIS   B 280	ATOM		ND1 HIS	B 280					
APON   S934   C   HIS   B   280	ATOM	5932	CE1 HIS	B 280	-4.604	63.875	36.764	1.00 45.37	BBBB
APON   S934   C   HIS   B   280	ATOM	5933	NE2 HTS	B 280	-3.885	64.296	37.788	1.00 45.74	BBBB
Note									
No.									
NPON	ATOM	5935	O HIS	B 580					
APTON   5938   C   GLY   B   281   -5.619   73.00   35.050   1.00   42.86   BBBB   APTON   5940   N   SER   B   282   -6.717   73.568   35.622   1.00   40.64   BBBB   APTON   5940   N   SER   B   282   -7.567   74.512   34.883   1.00   38.36   BBBB   APTON   5942   CB   SER   B   282   -8.381   73.771   33.816   1.00   36.48   BBBB   APTON   5943   OS   SER   B   282   -9.081   72.673   34.349   1.00   32.03   BBBB   APTON   5944   C   SER   B   282   -9.045   74.512   36.331   1.00   36.17   BBBB   APTON   5945   O   SER   B   282   -9.045   74.921   36.738   1.00   36.17   BBBB   APTON   5946   N   CYS   B   283   -9.015   74.921   36.738   1.00   36.75   BBBB   APTON   5946   N   CYS   B   283   -9.014   77.550   36.048   1.00   38.28   BBBB   APTON   5949   O   CYS   B   283   -9.015   79.016   35.891   1.00   38.00   BBBB   APTON   5949   O   CYS   B   283   -9.025   79.016   35.891   1.00   37.32   BBBB   APTON   5950   CB   CYS   B   283   -7.259   79.106   35.891   1.00   37.32   BBBB   APTON   5951   SG   CYS   B   283   -7.259   79.106   35.691   1.00   39.44   BBBB   APTON   5952   N   NLB   284   -13.728   76.614   35.190   1.00   41.48   BBBB   APTON   5953   CA   VAL   B   294   -13.281   77.541   36.190   1.00   41.48   BBBB   APTON   5955   CG   CYL   B   284   -13.728   76.575   36.321   1.00   40.29   BBBB   APTON   5956   CG   CYL   B   284   -13.728   76.617   75.755   36.321   1.00   41.48   BBBB   APTON   5956   CG   CYL   B   284   -13.728   76.575   36.321   1.00   41.48   BBBB   APTON   5956   CG   CAR   B   285   -16.036   80.588   34.440   1.00   37.44   BBBB   APTON   5956   CG   CAR   B   285   -16.036   80.588   34.440   1.00   41.48   BBBB   APTON   5956   CG   CAR   B   285   -16.036   80.588   34.440   1.00   41.48   BBBB   APTON   5956   CG   CAR   B   285   -16.036   80.588   34.440   1.00   41.48   BBBB   APTON   5950   CAR   B   285   -16.036   80.588   34.440   1.00   41.48   BBBB   APTON   5950   CAR   B   285   -16.036   80.588   34.440   1.00   41.43   BBBB   APTON   5	MOTA	5936	N GLY	B 281	-4.991	70.952	36.628	1.00 46.90	BBBB
APOM 5938 C GLY B 281 -5.619 73.000 35.050 1.00 42.86 BBBB APOM 5940 N SER B 282 -6.717 73.506 35.622 1.00 40.64 BBBB APOM 5941 CA SER B 282 -6.717 73.506 35.622 1.00 40.64 BBBB APOM 5942 CB SER B 282 -8.381 73.771 33.816 1.00 36.48 BBBB APOM 5942 CB SER B 282 -9.011 72.673 34.349 1.00 32.03 BBBB APOM 5943 OG SER B 282 -9.041 72.673 34.349 1.00 36.48 BBBB APOM 5945 O SER B 282 -9.045 74.512 36.736 1.00 36.75 BBBB APOM 5946 N CYS B 283 -8.662 76.642 35.281 1.00 36.75 BBBB APOM 5946 N CYS B 283 -9.514 77.590 36.048 1.00 38.28 BBBB APOM 5946 N CYS B 283 -9.514 77.590 36.048 1.00 38.28 BBBB APOM 5946 C CYS B 283 -9.514 77.590 36.048 1.00 38.28 BBBB APOM 5946 N CYS B 283 -9.514 77.590 36.048 1.00 38.20 BBBB APOM 5949 O CYS B 283 -9.025 79.016 35.891 1.00 38.00 BBBB APOM 5949 O CYS B 283 -9.025 79.016 35.891 1.00 38.00 BBBB APOM 5955 CB CYS B 283 -7.259 79.121 35.423 1.00 40.29 BBBB APOM 5955 CB CYS B 283 -7.259 79.121 35.423 1.00 40.29 BBBB APOM 5955 CB CYS B 283 -7.259 79.121 35.423 1.00 40.29 BBBB APOM 5955 CB CYS B 284 -11.880 77.584 36.599 1.00 41.48 BBBB APOM 5955 CB CYS B 284 -13.728 76.024 36.690 1.00 41.48 BBBB APOM 5955 CG LYAL B 284 -13.728 76.024 36.690 1.00 41.48 BBBB APOM 5955 CG LYAL B 284 -13.728 76.024 36.690 1.00 41.48 BBBB APOM 5956 CG CYAL B 284 -13.729 79.215 37.702 1.00 44.69 BBBB APOM 5956 CG CYAL B 284 -14.155 78.575 36.321 1.00 43.28 BBBB APOM 5956 CG CYAL B 284 -13.729 79.215 37.702 1.00 44.69 BBBB APOM 5956 CG APOM 5956 CF CYAL B 284 -14.155 78.5775 36.321 1.00 43.28 BBBB APOM 5956 CG APOM 5956 CF CYAL B 284 -14.155 78.5775 36.321 1.00 45.46 BBBB APOM 5956 CG APOM 5956 CF CA APOM 5957 N APOM 5956 CF CA APOM 5956 C	ATOM	5937	CA GLY	B 281	-4.714	72.127	35.812	1.00 44.61	BBBB
NOTE   Solid   No.   Series					-5.619	73.080	35.050	1.00 42.86	BBBB
NOTE									
NOTE   Series   Case   Series   2.02   -7.567   74.512   34.883   1.00   36.48   BBBB   RTOM   5942   CB   SER B   2.02   -8.391   73.771   33.816   1.00   36.48   BBBB   RTOM   5944   C   SER B   2.02   -9.001   72.673   34.349   1.00   36.43   BBBB   RTOM   5945   O   SER B   2.02   -9.001   74.921   36.738   1.00   36.17   BBBB   RTOM   5946   N   CYS B   2.03   -8.662   76.642   35.328   1.00   38.27   BBBB   RTOM   5946   N   CYS B   2.03   -9.514   77.590   36.048   1.00   38.28   BBBB   RTOM   5947   CA   CYS B   2.03   -9.514   77.590   36.048   1.00   38.28   BBBB   RTOM   5949   O   CYS B   2.03   -10.949   77.457   35.581   1.00   38.20   BBBB   RTOM   5949   O   CYS B   2.03   -10.949   77.457   35.581   1.00   37.32   BBBB   RTOM   5950   CB   CYS B   2.03   -7.259   79.121   36.407   1.00   37.32   BBBB   RTOM   5951   SG   CYS B   2.03   -7.259   79.121   36.407   1.00   37.32   BBBB   RTOM   5952   N   VAL B   2.04   -11.201   77.411   36.190   1.00   41.82   BBBB   RTOM   5955   CG   VAL B   2.04   -13.201   77.411   36.190   1.00   41.42   BBBB   RTOM   5955   CG   VAL B   2.04   -15.167   75.755   36.321   1.00   43.28   BBBB   RTOM   5956   CG   VAL B   2.04   -11.507   75.755   36.321   1.00   41.40   BBBB   RTOM   5957   C   VAL B   2.04   -11.3201   77.411   36.190   1.00   41.42   BBBB   RTOM   5956   CG   VAL B   2.04   -11.507   75.755   36.321   1.00   41.43   BBBB   RTOM   5950   CR   RAG   B 2.05   -15.374   78.652   36.299   1.00   41.43   BBBB   RTOM   5950   CR   RAG   B 2.05   -15.374   78.652   36.299   1.00   41.43   BBBB   RTOM   5960   CR   RAG   B 2.05   -15.307   80.068   35.750   1.00   41.45   BBBB   RTOM   5961   CB   RAG   B 2.05   -15.307   80.068   35.750   1.00   41.46   BBBB   RTOM   5961   CB   RAG   B 2.05   -16.036   81.925   34.583   1.00   37.45   BBBB   RTOM   5966   CR   RAG   B 2.05   -16.036   81.595   34.583   1.00   37.45   BBBB   RTOM   5960   CR   RAG   B 2.05   -16.036   81.595   34.583   1.00   37.45   BBBB   RTOM   5970   CR   RAG   B 2.05   -17.0									
ATOM   5942   CB   SER   282   -8, 381   73,771   33,816   1.00   36,48   BBBB   ATOM   5944   C   SER   8   282   -9,081   72,673   34,349   1.00   32,03   BBBB   ATOM   5945   O   SER   8   282   -9,045   74,921   36,738   1.00   36,75   BBBB   ATOM   5946   N   CYS   8   283   -9,514   77,590   36,048   1.00   38,67   BBBB   ATOM   5948   C   CYS   8   283   -9,514   77,590   36,048   1.00   38,07   BBBB   ATOM   5949   C   CYS   8   283   -9,514   77,590   36,048   1.00   38,00   BBBB   ATOM   5949   C   CYS   8   283   -10,949   77,457   35,581   1.00   38,00   BBBB   ATOM   5949   C   CYS   8   283   -10,949   77,457   35,581   1.00   38,00   BBBB   ATOM   5950   CB   CYS   8   283   -10,949   77,457   35,581   1.00   38,00   BBBB   ATOM   5951   CB   CYS   8   283   -11,211   77,256   34,407   1.00   37,32   BBBB   ATOM   5951   CB   CYS   8   283   -7,259   79,101   35,423   1.00   40,29   BBBB   ATOM   5953   CB   CYS   8   283   -7,259   79,101   35,423   1.00   40,29   BBBB   ATOM   5953   CB   VAL   8   284   -13,281   77,584   36,599   1.00   41,48   BBBB   ATOM   5955   CG   VAL   8   284   -13,1728   76,024   36,690   1.00   41,48   BBBB   ATOM   5955   CG   VAL   8   284   -12,186   74,963   36,995   1.00   41,49   BBBB   ATOM   5957   C   VAL   8   284   -14,155   76,507   36,691   1.00   41,49   BBBB   ATOM   5956   CG   VAL   8   284   -14,155   76,507   36,691   1.00   41,49   BBBB   ATOM   5956   CG   ARG   8   285   -15,374   79,215   37,702   1.00   46,46   BBBB   ATOM   5956   CG   ARG   8   285   -15,374   78,652   36,802   1.00   46,46   BBBB   ATOM   5960   CA   ARG   8   285   -15,374   78,652   36,802   1.00   46,46   BBBB   ATOM   5960   CA   ARG   8   285   -15,374   78,652   36,802   1.00   46,46   BBBB   ATOM   5960   CA   ARG   8   285   -15,374   78,652   36,802   1.00   46,46   BBBB   ATOM   5960   CA   ARG   8   285   -15,374   79,215   37,702   1.00   46,46   BBBB   ATOM   5960   CA   ARG   8   285   -15,374   78,652   36,802   1.00   40,404   40,404   40,404   40,404   4	ATOM	5940	N SER	R B 282	-6.717	73.568	35.622	1.00 40.64	BBBB
ATOM 5942 CB SER B 282 -8.381 73.771 33.816 1.00 36.48 BBBB ATOM 5945 C SER B 282 -9.081 72.673 34.349 1.00 32.03 BBBB ATOM 5946 N CYS B 283 -9.015 74.921 36.738 1.00 38.17 BBBB ATOM 5946 N CYS B 283 -9.514 77.590 36.048 1.00 38.28 BBBB ATOM 5946 N CYS B 283 -9.514 77.590 36.048 1.00 38.28 BBBB ATOM 5946 C CYS B 283 -9.514 77.590 36.048 1.00 38.28 BBBB ATOM 5949 O CYS B 283 -9.514 77.590 36.048 1.00 38.28 BBBB ATOM 5949 O CYS B 283 -9.514 77.590 36.048 1.00 38.20 BBBB ATOM 5949 O CYS B 283 -10.949 77.457 35.581 1.00 38.00 BBBB ATOM 5951 SG CYS B 283 -10.949 77.457 35.581 1.00 38.00 BBBB ATOM 5951 SG CYS B 283 -9.025 79.016 35.891 1.00 37.32 BBBB ATOM 5951 SG CYS B 283 -7.259 79.121 35.423 1.00 40.29 BBBB ATOM 5951 SG CYS B 283 -7.259 79.121 35.423 1.00 40.29 BBBB ATOM 5955 CG VAL B 284 -13.281 77.541 36.190 1.00 41.82 BBBB ATOM 5955 CG VAL B 284 -13.281 77.541 36.190 1.00 41.82 BBBB ATOM 5955 CG VAL B 284 -13.728 76.024 36.690 1.00 41.49 BBBB ATOM 5956 CG2 VAL B 284 -12.826 74.953 36.095 1.00 41.49 BBBB ATOM 5956 CG2 VAL B 284 -14.155 76.507 36.021 1.00 44.328 BBBB ATOM 5956 CG VAL B 284 -14.155 76.507 36.001 40.49 BBBB ATOM 5958 O VAL B 284 -14.155 76.507 36.001 40.49 BBBB ATOM 5956 CG ARG B 285 -15.574 78.652 36.802 1.00 44.33 BBBB ATOM 5960 CA ARG B 285 -15.574 78.652 36.802 1.00 45.46 BBBB ATOM 5960 CA ARG B 285 -15.574 78.652 36.802 1.00 45.46 BBBB ATOM 5960 CA ARG B 285 -15.574 78.652 36.802 1.00 45.46 BBBB ATOM 5960 CA ARG B 285 -15.574 80.588 31.00 39.39 BBBB ATOM 5960 CA ARG B 285 -15.574 78.652 36.812 1.00 46.98 BBBB ATOM 5960 CA ARG B 285 -15.574 78.652 36.812 1.00 46.98 BBBB ATOM 5960 CA ARG B 285 -15.574 78.652 36.812 1.00 46.98 BBBB ATOM 5960 CA ARG B 285 -15.574 78.652 36.812 1.00 46.98 BBBB ATOM 5960 CA ARG B 285 -15.574 78.652 36.812 1.00 46.98 BBBB ATOM 5960 CA ARG B 285 -17.747 77.86 80.588 31.00 39.39 BBBB ATOM 5960 CA ARG B 285 -17.747 86.52 36.812 1.00 46.98 BBBB ATOM 5960 CA ARG B 285 -17.747 86.52 36.812 1.00 46.98 BBBB ATOM 5960 CA ARG B 285 -17.747 77.86 80.588 31.00 39.39 BBBB ATOM 59	ATOM	5941	CA SER	B 282	-7.567	74.512	34.883	1.00 38.36	BBBB
ATCM	АТОМ	5942			-8.381	73.771	33.816	1.00 36.48	BBBB
NOTION   5944   C									
ATCM   5945   O   SER   B   202   -9.045   74.921   36.738   1.00   36.75   BBBB   ATCM   5947   CA   CYS   B   283   -9.514   77.590   36.048   1.00   38.28   BBBB   ATCM   5948   C   CYS   B   283   -9.514   77.590   36.048   1.00   38.28   BBBB   ATCM   5949   O   CYS   B   283   -11.211   77.255   35.581   1.00   38.00   BBBB   ATCM   5950   CB   CYS   B   283   -11.211   77.255   35.581   1.00   38.00   BBBB   ATCM   5951   SG   CYS   B   283   -7.259   79.121   35.423   1.00   40.29   BBBB   ATCM   5951   SG   CYS   B   283   -7.259   79.121   35.423   1.00   40.29   BBBB   ATCM   5951   SG   CYS   B   283   -7.259   79.121   35.423   1.00   40.29   BBBB   ATCM   5952   N   VAL   B   284   -11.880   77.584   36.509   1.00   41.48   BBBB   ATCM   5955   CCI   VAL   B   284   -13.728   76.024   36.590   1.00   41.48   BBBB   ATCM   5955   CCI   VAL   B   284   -15.167   75.755   36.321   1.00   41.28   BBBB   ATCM   5955   CCI   VAL   B   284   -12.826   74.963   36.995   1.00   41.48   BBBB   ATCM   5957   C   VAL   B   284   -14.155   78.507   36.802   1.00   44.43   BBBB   ATCM   5958   O VAL   B   284   -14.155   78.507   36.802   1.00   44.43   BBBB   ATCM   5959   N   ARG   B   285   -15.374   78.652   36.299   1.00   45.46   BBBB   ATCM   5960   CA   ARG   B   285   -15.374   78.652   36.299   1.00   45.46   BBBB   ATCM   5960   CA   ARG   B   285   -15.374   78.652   36.812   1.00   46.98   BBBB   ATCM   5963   CD   ARG   B   285   -15.374   78.652   36.812   1.00   46.98   BBBB   ATCM   5963   CD   ARG   B   285   -15.804   82.548   33.244   1.00   37.45   BBBB   ATCM   5963   CD   ARG   B   285   -15.804   82.548   33.244   1.00   37.45   BBBB   ATCM   5966   CA   ARG   B   285   -15.804   82.548   33.244   1.00   37.45   BBBB   ATCM   5966   CA   ARG   B   285   -17.407   79.945   31.545   1.00   34.30   BBBB   ATCM   5967   NIL   ARG   B   285   -17.407   79.945   31.00   31.86   BBBB   ATCM   5967   NIL   ARG   B   285   -17.707   79.816   31.545   1.00   57.86   BBBB   ATCM   5979   CA   ALA									
NOTE   1	ATOM								
ATOM 5948 C C CYS B 283	MOTA	5945	O SEF	R B 282	-9.045	74.921	36.738	1.00 36.75	BBBB
ATCM 5948 C CYS B 283	MOTA	5946	N CYS	B 283	-8.662	76.642	35.328	1.00 38.67	BBBB
ATOM 5948 C CYS B 283 -10.949 77.457 35.581 1.00 38.00 BBBB ATOM 5950 CB CYS B 283 -11.211 77.256 34.407 1.00 37.32 BBBB ATOM 5950 CB CYS B 283 -9.025 79.016 35.834 1.00 38.60 BBBB ATOM 5951 SG CYS B 283 -9.025 79.016 35.834 1.00 38.60 BBBB ATOM 5952 N VAL B 284 -11.880 77.584 36.509 1.00 39.44 BBBB ATOM 5952 N VAL B 284 -13.281 77.411 36.190 1.00 41.82 BBBB ATOM 5953 CA VAL B 284 -13.281 77.411 36.190 1.00 41.82 BBBB ATOM 5955 CG1 VAL B 284 -13.281 77.411 36.190 1.00 41.82 BBBB ATOM 5955 CG2 VAL B 284 -15.167 75.755 36.321 1.00 43.28 BBBB ATOM 5955 CG2 VAL B 284 -12.826 74.963 36.095 1.00 41.49 BBBB ATOM 5955 CG2 VAL B 284 -14.155 78.507 36.802 1.00 44.43 BBBB ATOM 5955 CG2 VAL B 284 -14.155 78.507 36.802 1.00 44.43 BBBB ATOM 5958 O VAL B 284 -14.155 78.507 36.802 1.00 44.43 BBBB ATOM 5958 O VAL B 284 -14.155 78.507 36.802 1.00 44.62 BBBB ATOM 5950 CA ARG B 285 -15.374 78.652 36.299 1.00 45.66 BBBB ATOM 5960 CA ARG B 285 -15.374 78.652 36.299 1.00 45.66 BBBB ATOM 5961 CB ARG B 285 -15.367 48.652 36.299 1.00 45.24 BBBB ATOM 5962 CG ARG B 285 -16.036 81.925 34.583 1.00 39.39 BBBB ATOM 5963 CD ARG B 285 -16.036 81.925 34.583 1.00 39.39 BBBB ATOM 5965 CZ ARG B 285 -16.036 81.925 34.583 1.00 39.39 BBBB ATOM 5966 NH1 ARG B 285 -14.494 84.236 34.431 1.00 37.45 BBBB ATOM 5966 NH1 ARG B 285 -14.494 84.236 34.431 1.00 34.30 BBBBB ATOM 5969 O RAG B 285 -14.494 84.236 34.133 1.00 34.30 BBBBB ATOM 5970 N ALA B 286 -17.470 77.788 37.991 1.00 48.83 BBBB ATOM 5971 CA ALA B 286 -17.507 77.788 37.991 1.00 55.62 BBBB ATOM 5970 CA ALA B 286 -17.507 77.788 37.991 1.00 55.62 BBBB ATOM 5970 CA ALA B 286 -17.507 77.788 37.991 1.00 55.62 BBBB ATOM 5970 CA ALA B 286 -17.507 77.788 37.991 1.00 57.86 BBBB ATOM 5970 CA ALA B 286 -17.507 77.788 37.991 1.00 57.86 BBBB ATOM 5970 CA ALA B 286 -17.507 77.788 37.991 1.00 57.86 BBBB ATOM 5970 CA ALA B 286 -17.507 77.788 37.991 1.00 66.67 BBBB ATOM 5970 CA ALA B 286 -17.507 77.788 37.991 1.00 66.67 BBBB ATOM 5970 CA ALA B 289 -22.770 77.788 37.991 1.00 67.35 BBBB ATOM 5970 CA ALA B 289 -22.770 77				R 283		77.590	36.048	1.00 38.28	BBBB
ATOM 5950 CB CYS B 283 -11.211 77.256 34.407 1.00 37.32 BBBB ATOM 5951 SG CYS B 283 -7.259 79.121 35.423 1.00 40.29 BBBB ATOM 5951 SG CYS B 283 -7.259 79.121 35.423 1.00 40.29 BBBB ATOM 5952 N VAL B 284 -11.880 77.584 36.509 1.00 41.48 BBBB ATOM 5953 CA VAL B 284 -13.728 76.024 36.690 1.00 41.48 BBBB ATOM 5955 CG2 VAL B 284 -13.728 76.024 36.690 1.00 41.49 BBBB ATOM 5955 CG2 VAL B 284 -12.826 74.963 36.095 1.00 41.49 BBBB ATOM 5956 CG2 VAL B 284 -12.826 74.963 36.095 1.00 41.49 BBBB ATOM 5957 C VAL B 284 -14.155 78.507 36.802 1.00 44.33 BBBB ATOM 5958 O VAL B 284 -14.155 78.507 36.802 1.00 44.33 BBBB ATOM 5958 O VAL B 284 -13.729 79.215 37.702 1.00 44.62 BBBB ATOM 5956 CG2 VAL B 284 -13.729 79.215 37.702 1.00 44.62 BBBB ATOM 5961 CB ARG B 285 -15.374 78.652 36.299 1.00 45.46 BBBB ATOM 5961 CB ARG B 285 -15.374 78.652 36.822 1.00 46.98 BBBB ATOM 5961 CB ARG B 285 -16.284 79.662 36.812 1.00 46.98 BBBB ATOM 5963 CD ARG B 285 -16.284 79.662 36.812 1.00 42.67 BBBB ATOM 5963 CD ARG B 285 -16.736 80.588 34.404 1.00 42.67 BBBB ATOM 5963 CD ARG B 285 -16.736 80.588 34.404 1.00 42.67 BBBB ATOM 5965 CZ ARG B 285 -16.736 80.588 34.404 1.00 42.67 BBBB ATOM 5965 NH ARG B 285 -14.911 84.134 31.897 1.00 37.45 BBBB ATOM 5967 NH2 ARG B 285 -14.911 84.134 31.897 1.00 37.45 BBBB ATOM 5969 O ARG B 285 -14.911 84.134 31.897 1.00 34.86 BBBB ATOM 5967 NH2 ARG B 285 -14.911 84.134 31.897 1.00 34.86 BBBB ATOM 5970 N ALA B 286 -17.270 77.788 37.991 1.00 55.65 BBBB ATOM 5970 C RAG B 285 -17.425 79.832 38.895 1.00 50.88 BBBB ATOM 5970 C RAG B 285 -17.425 79.832 38.895 1.00 50.88 BBBB ATOM 5970 C RAG B 285 -17.426 79.832 38.895 1.00 55.65 BBBB ATOM 5971 CA ALA B 286 -17.270 77.788 37.991 1.00 55.65 BBBB ATOM 5970 C RAG B 285 -17.461 79.060 37.991 1.00 66.67 BBBB ATOM 5970 C RAG B 285 -17.461 79.148 39.055 1.00 55.65 BBBB ATOM 5973 C RAG B 287 -17.266 77.270 37.291 1.00 66.67 BBBB ATOM 5970 C RAG B 287 -17.266 77.295 77.291 1.00 66.67 BBBB ATOM 5970 C RAG B 287 -17.255 73.604 42.319 1.00 67.58 BBBB ATOM 5970 C RAG B 287 -17.255 73.604 42.319									
ATCM 5950 CB CYS B 283									
ATOM 5951	ATOM	5949			-11.211				
ATOM 5952 N VAL B 284 -11.880 77.584 36.509 1.00 39.44 BBBB ATOM 5954 CB VAL B 284 -13.281 77.411 36.190 1.00 41.48 BBBB ATOM 5955 CG1 VAL B 284 -13.728 76.024 36.690 1.00 41.48 BBBB ATOM 5955 CG2 VAL B 284 -15.167 75.755 36.321 1.00 43.28 BBBB ATOM 5956 CG2 VAL B 284 -12.826 74.963 36.095 1.00 41.49 BBBB ATOM 5957 C VAL B 284 -14.155 78.507 36.802 1.00 44.33 BBBB ATOM 5958 O VAL B 284 -14.155 78.507 36.802 1.00 44.33 BBBB ATOM 5958 O VAL B 284 -13.729 79.215 37.702 1.00 44.62 BBBB ATOM 5959 N ARG B 285 -15.374 78.652 36.299 1.00 44.62 BBBB ATOM 5960 CA ARG B 285 -16.284 79.662 36.812 1.00 45.46 BBBB ATOM 5960 CA ARG B 285 -16.336 80.588 34.440 1.00 45.46 BBBB ATOM 5961 CB ARG B 285 -16.736 80.588 34.440 1.00 45.26 BBBB ATOM 5962 CG ARG B 285 -16.036 81.925 34.583 1.00 39.39 BBBB ATOM 5964 NE ARG B 285 -15.804 82.548 33.202 1.00 36.49- BBBB ATOM 5965 CZ ARG B 285 -15.004 82.548 33.202 1.00 36.49- BBBB ATOM 5965 CZ ARG B 285 -14.494 84.236 34.133 1.00 34.30 BBBB ATOM 5966 NH1 ARG B 285 -14.494 84.236 34.133 1.00 34.86 BBBB ATOM 5969 NAG BB 285 -14.494 84.236 34.133 1.00 34.86 BBBB ATOM 5969 NAG BB 285 -17.741 79.096 37.993 1.00 48.83 BBBB ATOM 5970 N ALA B 286 -17.270 77.788 37.991 1.00 50.82 BBBB ATOM 5971 CA ALA B 286 -17.270 77.788 37.991 1.00 50.82 BBBB ATOM 5973 C ALA B 286 -17.270 77.788 37.991 1.00 50.82 BBBB ATOM 5973 C ALA B 286 -17.270 77.788 37.991 1.00 50.82 BBBB ATOM 5970 N ALA B 286 -17.507 77.988 38.295 1.00 50.88 BBBB ATOM 5977 C CYS B 287 -17.676 75.657 39.251 1.00 50.82 BBBB ATOM 5979 C ALA B 286 -17.507 77.988 38.295 1.00 50.82 BBBB ATOM 5970 N ALA B 286 -17.507 77.988 38.295 1.00 50.82 BBBB ATOM 5970 N ALA B 286 -17.507 77.988 38.295 1.00 50.82 BBBB ATOM 5970 C ALA B 286 -17.507 77.988 39.251 1.00 50.82 BBBB ATOM 5970 C ALA B 286 -17.507 77.788 39.251 1.00 50.82 BBBB ATOM 5970 C ALA B 288 -19.241 70.717 40.092 1.00 66.67 BBBB ATOM 5970 C ALA B 288 -19.241 70.717 40.092 1.00 67.35 BBBB ATOM 5990 C ALA B 289 -22.847 70.031 41.236 1.00 77.43 BBBB ATOM 5980 C ALA B 289 -22.847 70.031 41.236 1.00	MOTA	5950	CB CYS	B 283	-9.025	79.016	35.834	1.00 38.60	BBBB
ATCM   5952   N   VAL B   284   -11,880   77,584   36,509   1,00   39,44   BBBB   ATCM   5954   CB   VAL B   284   -13,281   77,411   36,509   1,00   41,48   BBBB   ATCM   5955   CG1   VAL B   284   -13,728   76,024   36,690   1,00   41,48   BBBB   ATCM   5955   CG2   VAL B   284   -12,167   75,755   36,321   1,00   43,28   BBBB   ATCM   5957   C   VAL B   284   -12,167   75,755   36,321   1,00   41,49   BBBB   ATCM   5958   C   VAL B   284   -12,167   75,755   36,321   1,00   41,49   BBBB   ATCM   5958   O   VAL B   284   -14,155   78,507   36,802   1,00   44,43   BBBB   ATCM   5959   N   ARG B   285   -15,374   78,652   36,299   1,00   44,62   BBBB   ATCM   5959   N   ARG B   285   -15,374   78,652   36,299   1,00   44,62   BBBB   ATCM   5960   CR   ARG B   285   -16,336   80,588   34,440   1,00   45,46   BBBB   ATCM   5961   CB   ARG B   285   -16,736   80,588   34,440   1,00   45,24   BBBB   ATCM   5964   NE   ARG B   285   -16,036   81,925   34,583   1,00   39,39   BBBB   ATCM   5965   CZ   ARG B   285   -15,004   82,548   33,202   1,00   36,49   BBBB   ATCM   5966   NH1   ARG B   285   -14,494   84,236   34,133   1,00   34,86   BBBB   ATCM   5966   NH1   ARG B   285   -14,494   84,236   34,133   1,00   34,86   BBBB   ATCM   5969   O   ARG B   285   -17,041   79,096   37,993   1,00   48,83   BBBB   ATCM   5971   CA   ALA B   286   -17,270   77,788   37,991   1,00   50,88   BBBB   ATCM   5972   CB   ALA B   286   -17,270   77,788   37,991   1,00   50,88   BBBB   ATCM   5973   C   ALA B   286   -17,270   77,788   33,291   1,00   57,86   BBBB   ATCM   5975   N   ALA B   286   -17,270   77,788   33,291   1,00   57,86   BBBB   ATCM   5977   C   ALA B   286   -17,561   75,255   40,505   1,00   60,73   BBBB   ATCM   5977   C   ALA B   286   -17,561   75,255   40,505   1,00   60,73   BBBB   ATCM   5977   C   ALA B   288   -19,241   70,717   40,092   1,00   64,61   BBBB   ATCM   5979   CB   CYS B   287   -17,264   73,865   40,801   1,00   64,61   BBBB   ATCM   5998   C   ALA B   289   -22,332   69,669   40,395	ATOM	5951	SG CYS	B 283	-7.259	79.121	35.423	1.00 40.29	BBBB
ATOM 5953 CA VAL B 284 -13.281 77.411 36.190 1.00 41.82 BBBB ATOM 5955 CGI VAL B 284 -15.167 75.755 36.321 1.00 41.48 BBBB ATOM 5955 CGI VAL B 284 -15.167 75.755 36.321 1.00 41.49 BBBB ATOM 5956 CG2 VAL B 284 -12.826 74.963 36.995 1.00 41.49 BBBB ATOM 5957 C VAL B 284 -14.155 78.507 36.8021 1.00 44.33 BBBB ATOM 5958 O VAL B 284 -11.55 78.507 36.802 1.00 44.33 BBBB ATOM 5958 O VAL B 284 -13.729 79.215 37.702 1.00 44.62 BBBB ATOM 5950 CA ARG B 285 -15.374 78.652 36.299 1.00 45.46 BBBB ATOM 5960 CA ARG B 285 -16.736 80.588 34.440 1.00 42.67 BBBB ATOM 5961 CB ARG B 285 -16.736 80.588 34.440 1.00 42.67 BBBB ATOM 5962 CG ARG B 285 -16.036 81.925 34.583 1.00 39.39 BBBB ATOM 5963 CD ARG B 285 -16.036 81.925 34.583 1.00 39.39 BBBB ATOM 5965 CZ ARG B 285 -15.5071 83.640 33.284 1.00 37.45 BBBB ATOM 5966 CA ARG B 285 -15.701 83.640 33.284 1.00 37.45 BBBB ATOM 5966 CA ARG B 285 -15.701 83.640 33.284 1.00 37.45 BBBB ATOM 5966 CA ARG B 285 -15.701 83.640 33.202 1.00 34.30 BBBB ATOM 5966 CA ARG B 285 -14.494 84.236 34.133 1.00 34.30 BBBB ATOM 5967 NH12 ARG B 285 -14.491 84.134 31.887 1.00 34.86 BBBB ATOM 5968 C ARG B 285 -17.041 79.096 37.993 1.00 48.83 BBBB ATOM 5967 NALA B 286 -17.041 79.096 37.993 1.00 48.83 BBBB ATOM 5970 N ALA B 286 -17.041 79.096 37.993 1.00 48.83 BBBB ATOM 5971 CA ALA B 286 -17.041 79.096 37.993 1.00 48.83 BBBB ATOM 5973 C ALA B 286 -17.529 74.938 38.281 1.00 55.65 BBBB ATOM 5975 C CR ARG B 287 -17.661 75.567 39.251 1.00 55.65 BBBB ATOM 5977 C CYS B 287 -17.529 74.938 38.281 1.00 57.86 BBBB ATOM 5979 C CYS B 287 -17.264 73.400 39.397 1.00 64.61 BBBB ATOM 5980 C ALA B 288 -19.241 70.717 40.092 1.00 67.35 BBBB ATOM 5980 C CA B 288 -19.241 70.717 40.092 1.00 67.35 BBBB ATOM 5980 C CA B 288 -19.241 70.717 40.092 1.00 67.35 BBBB ATOM 5980 C CA B 288 -19.241 70.717 40.092 1.00 67.35 BBBB ATOM 5980 C CA B 288 -19.241 70.717 40.092 1.00 67.35 BBBB ATOM 5980 C CA B 288 -19.241 70.717 40.092 1.00 67.35 BBBB ATOM 5980 C CA B 288 -19.241 70.717 40.092 1.00 67.35 BBBB ATOM 5980 C ALA B 289 -22.3323 70.036 43.569 1.0								1.00 39.44	BBBB
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ATOM 5957 C VAL B 284 -14.155 78.507 36.802 1.00 44.33 BBBB ATOM 5959 N ARG B 285 -15.374 78.652 36.299 1.00 45.46 BBBB ATOM 5960 CA ARG B 285 -16.284 79.662 36.812 1.00 45.46 BBBB ATOM 5960 CG ARG B 285 -16.284 79.662 36.812 1.00 45.24 BBBB ATOM 5961 CB ARG B 285 -16.736 80.588 34.440 1.00 42.67 BBBB ATOM 5962 CG ARG B 285 -16.036 81.925 34.583 1.00 39.39 BBBB ATOM 5963 CD ARG B 285 -15.804 82.548 33.284 1.00 37.45 BBBB ATOM 5965 CZ ARG B 285 -15.001 82.548 33.284 1.00 37.45 BBBB ATOM 5966 CA ARG B 285 -14.491 84.236 34.133 1.00 34.30 BBBB ATOM 5966 CA ARG B 285 -14.494 84.236 34.133 1.00 34.30 BBBB ATOM 5966 CA ARG B 285 -17.425 79.832 38.895 1.00 34.86 BBBB ATOM 5960 O ARG B 285 -17.425 79.832 38.895 1.00 50.88 BBBB ATOM 5970 N ALA B 286 -17.270 77.788 39.7991 1.00 50.88 BBBB ATOM 5970 CA ALA B 286 -19.508 77.288 38.7961 1.00 55.65 BBBB ATOM 5973 C ALA B 286 -19.508 77.288 38.7961 1.00 57.86 BBBB ATOM 5976 C ARG B 285 -17.661 75.255 40.505 1.00 55.65 BBBB ATOM 5976 C ALA B 286 -17.529 74.938 38.288 1.00 57.86 BBBB ATOM 5976 C ALA B 286 -17.529 74.938 38.288 1.00 57.86 BBBB ATOM 5973 C ALA B 286 -17.529 74.938 38.288 1.00 57.86 BBBB ATOM 5976 C ALA B 286 -17.529 74.938 38.288 1.00 57.86 BBBB ATOM 5976 C CYS B 287 -17.561 75.255 40.505 1.00 60.73 BBBB ATOM 5976 C CYS B 287 -17.561 75.255 40.505 1.00 60.73 BBBB ATOM 5976 C CYS B 287 -17.561 75.255 40.505 1.00 60.73 BBBB ATOM 5976 C CYS B 287 -17.561 75.255 40.505 1.00 67.55 BBBB ATOM 5980 C CYS B 287 -17.264 73.865 40.808 1.00 64.76 BBBB ATOM 5980 C CYS B 287 -17.264 73.865 40.808 1.00 64.76 BBBB ATOM 5980 C CYS B 287 -17.264 73.865 40.808 1.00 64.76 BBBB ATOM 5980 C CYS B 287 -17.255 73.624 42.319 1.00 64.76 BBBB ATOM 5980 C CYS B 287 -17.255 73.624 42.319 1.00 67.55 BBBB ATOM 5980 C CYS B 288 -20.279 70.727 42.246 1.00 77.43 BBBB ATOM 5980 C C CYS B 288 -20.279 70.727 42.246 1.00 77.43 BBBB ATOM 5980 C C CYS B 288 -20.279 70.727 42.246 1.00 77.43 BBBB ATOM 5980 C ALA B 289 -22.180 66.50 BBBB ATOM 5980 C ALA B 289 -22.284 70.331 1.00 81.15 BBBB ATOM 5980 C ALA	ATOM	5956	CG2 VA	L B 284	-12.826	74.963	36.095	1.00 41.49	BBBB
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ATOM 5981 N GLY B 288 -18.279 71.684 40.581 1.00 68.50 BBBB ATOM 5982 CA GLY B 288 -19.241 70.717 40.092 1.00 70.63 BBBB ATOM 5983 C GLY B 288 -20.430 70.624 41.030 1.00 72.62 BBBB ATOM 5984 O GLY B 288 -20.279 70.727 42.246 1.00 71.21 BBBB ATOM 5985 N ALA B 289 -21.613 70.422 40.462 1.00 74.39 BBBB ATOM 5986 CA ALA B 289 -22.847 70.331 41.236 1.00 77.43 BBBB ATOM 5987 CB ALA B 289 -23.932 69.669 40.395 1.00 77.59 BBBB ATOM 5988 C ALA B 289 -22.724 69.616 42.583 1.00 77.69 BBBB ATOM 5989 O ALA B 289 -23.323 70.036 43.569 1.00 79.62 BBBB ATOM 5990 N ALA B 290 -21.953 68.537 42.633 1.00 79.77 BBBB ATOM 5991 CA ALA B 290 -21.802 67.797 43.878 1.00 81.15 BBBB ATOM 5992 CB ALA B 290 -21.727 66.311 43.588 1.00 81.42 BBBB ATOM 5993 C ALA B 290 -20.573 68.235 44.657 1.00 82.10 BBBB ATOM 5994 O ALA B 290 -19.674 67.433 44.899 1.00 82.58 BBBB ATOM 5994 O ALA B 290 -19.674 67.433 44.899 1.00 82.58 BBBB	ATOM	5980	SG CY	S B 287	-16.072	74.601	43.282	1.00 67.58	BBBB
ATOM 5982 CA GLY B 288 -19.241 70.717 40.092 1.00 70.63 BBBB ATOM 5983 C GLY B 288 -20.430 70.624 41.030 1.00 72.62 BBBB ATOM 5984 O GLY B 288 -20.279 70.727 42.246 1.00 71.21 BBBB ATOM 5985 N ALA B 289 -21.613 70.422 40.462 1.00 74.39 BBBB ATOM 5986 CA ALA B 289 -22.847 70.331 41.236 1.00 77.43 BBBB ATOM 5987 CB ALA B 289 -23.932 69.669 40.395 1.00 77.59 BBBB ATOM 5988 C ALA B 289 -22.724 69.616 42.583 1.00 78.69 BBBB ATOM 5989 O ALA B 289 -23.323 70.036 43.569 1.00 79.62 BBBB ATOM 5990 N ALA B 289 -23.323 70.036 43.569 1.00 79.62 BBBB ATOM 5990 N ALA B 290 -21.953 68.537 42.633 1.00 79.77 BBBB ATOM 5991 CA ALA B 290 -21.953 68.537 42.633 1.00 79.77 BBBB ATOM 5992 CB ALA B 290 -21.727 66.311 43.588 1.00 81.15 BBBB ATOM 5993 C ALA B 290 -20.573 68.235 44.657 1.00 82.10 BBBB ATOM 5994 O ALA B 290 -19.674 67.433 44.899 1.00 82.58 BBBB ATOM 5994 O ALA B 290 -19.674 67.433 44.899 1.00 82.58 BBBB								1.00 68.50	BBBB
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ATOM 5987 CB ALA B 289 -23.932 69.669 40.395 1.00 77.59 BBBB ATOM 5988 C ALA B 289 -22.724 69.616 42.583 1.00 78.69 BBBB ATOM 5989 O ALA B 289 -23.323 70.036 43.569 1.00 79.62 BBBB ATOM 5990 N ALA B 290 -21.953 68.537 42.633 1.00 79.77 BBBB ATOM 5991 CA ALA B 290 -21.802 67.797 43.878 1.00 81.15 BBBB ATOM 5992 CB ALA B 290 -21.727 66.311 43.588 1.00 81.42 BBBB ATOM 5993 C ALA B 290 -20.573 68.235 44.657 1.00 82.10 BBBB ATOM 5994 O ALA B 290 -19.674 67.433 44.899 1.00 82.58 BBBB						70.331			BBBB
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ATOM 5991 CA ALA B 290 -21.802 67.797 43.878 1.00 81.15 BBBB ATOM 5992 CB ALA B 290 -21.727 66.311 43.588 1.00 81.42 BBBB ATOM 5993 C ALA B 290 -20.573 68.235 44.657 1.00 82.10 BBBB ATOM 5994 O ALA B 290 -19.674 67.433 44.899 1.00 82.58 BBBB	ATOM	5990	N AL	A B 290	-21.953	68.537	42.633	1.00 79.77	BBBB
ATOM 5992 CB ALA B 290 -21.727 66.311 43.588 1.00 81.42 BBBB ATOM 5993 C ALA B 290 -20.573 68.235 44.657 1.00 82.10 BBBB ATOM 5994 O ALA B 290 -19.674 67.433 44.899 1.00 82.58 BBBB									BBBB
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ATOM 5994 O ALA B 290 -19.674 67.433 44.899 1.00 82.58 BBBB									
ATOM 5995 N SER B 291 -20.544 69.508 45.049 1.00 83.01 BBBB		5994							
	MOTA	5995	N SE	R B 291	-20.544	69.508	45.049	1.00 83.01	BBBB

ATOM	5996	CA	SER B	291	-19.424	70.072	45.809	1.00 82.99	BBBB
ATOM	5997		SER B		-18.160	70.136	44.936	1.00 83.86	BBBB
ATOM	5998	OG	SER B	291	-17.784	68.862	44.437	1.00 84.16	BBBB
ATOM	5999		SER B		-19.762	71.484	46.305	1.00 82.21	BBBB
ATOM	6000		SER B		-20.895	71.944	46.171	1.00 81.64 1.00 81.12	BBBB BBBB
ATOM	6001		TYR B		-18.770 -18.933	72.158 73.525	46.883 47.368	1.00 80.68	BBBB
ATOM	6002 6003		TYR B		-19.441	73.525	48.823	1.00 80.62	BBBB
ATOM ATOM	6004		TYR E		-18.391	73.331	49.885	1.00 81.05	BBBB
ATOM	6005		TYR E		-17.412	74.288	50.117	1.00 81.11	BBBB
ATOM	6006	CE1	TYR B	3 292	-16.435	74.102	51.080	1.00 81.93	BBBB
ATOM	6007	CD2	TYR E	3 292	-18.371	72.173	50.653	1.00 81.59	BBBB
MOTA	6008		TYR E		-17.396	71.975	51.625	1.00 82.84	BBBB
ATOM	6009		TYR E		-16.430	72.945	51.830 52.773	1.00 82.84	BBBB BBBB
MOTA	6010		TYR E		-15.448 -17.575	72.754 74.215	47.238	1.00 80.02	BBBB
ATOM	6011 6012		TYR E		-16.543	73.544	47.222	1.00 79.98	BBBB
ATOM ATOM	6013		GLU E		-17.573	75.544	47.146	1.00 79.12	BBBB
ATOM	6014		GLU E		-16.330	76.295	46.978	1.00 78.49	BBBB
ATOM	6015	СВ	GLU E		-16.593	77.596	46.211	1.00 76.82	BBBB
ATOM	6016	CG	GLU E	3 293	-15.494	77.941	45.206	1.00 74.78	BBBB
ATOM	6017	CD	GLU E		-15.598	79.348	44.650	1.00 73.38	BBBB
MOTA	6018		GLU E		-15.077	80.285	45.285	1.00 71.45	BBBB BBBB
ATOM	6019		GLU E		-16.203	79.518	43.575 48.277	1.00 73.24	BBBB
ATOM	6020	C O	GLU E		-15.617 -16.236	76.626 76.682	49.332	1.00 70.00	BBBB
ATOM ATOM	6021 6022			3 293	-14.312	76.857	48.186	1.00 79.43	BBBB
ATOM	6023		MET E		-13.498	77.197	49.346	1.00 80.97	BBBB
ATOM	6024	CB	MET E		-13.468	76.037	50.322	1.00 82.63	BBBB
ATOM	6025	CG	MET E		-13.045	74.749	49.684	1.00 84.35	BBBB
ATOM	6026	SD	MET E	3 294	-12.597	73.581	50.935	1.00 86.79	BBBB
MOTA	6027	CE	MET E		-10.878	74.084	51.208	1.00 86.83	BBBB
MOTA	6028	С	MET E		-12.083	77.516	48.895	1.00 81.08	BBBB
ATOM	6029	0	MET I		-11.783	77.409	47.709	1.00 81.59 1.00 82.30	BBBB BBBB
ATOM	6030	N	GLU I		-11.205 -9.840	77.892 78.232	49.823 49.429	1.00 82.30	BBBB
ATOM ATOM	6031 6032	CA CB	GLU I	B 295 B 29 <b>5</b>	-9.749	79.735	49.140	1.00 84.47	BBBB
ATOM	6032	CG	GLU I		-9.509	80.638	50.347	1.00 86.89	BBBB
ATOM	6034	CD		B 295	-8.031	80.782	50.696	1.00 88.22	BBBB
ATOM	6035	OE1	GLU I		-7.224	81.050	49.780	1.00 88.93	BBBB
ATOM	6036	OE2	GLU I	B 295	-7.672	80.633	51.885	1.00 89.53	BBBB
MOTA	6037	С	GLU I		-8.756	77.839	50.423	1.00 83.78	BBBB
MOTA	6038	0		B 295	-9.017	77.145	51.401	1.00 83.71	BBBB BBBB
ATOM	6039	N		B 296	-7.532	78.283	50.141	1.00 83.75 -1-00-83-88	BBBB
ATOM	6040	CA CB	SER I	B 296~- B 296	-6.366 -6.213	78.019 76.527	51.235	1.00 83.95	BBBB
ATOM ATOM	6041 6042	OG		B 296	-5.638	75.900	50.107	1.00 84.71	BBBB
ATOM	6043	C		B 296	-5.120	78.512	50.258	1.00 83.57	BBBB
ATOM	6044	o		B 296	-5.201	78.950	49.117	1.00 84.56	BBBB
ATOM	6045	N		B 297	-3.976	78.426	50.931	1.00 83.57	BBBB
ATOM	6046	CA	ASP	В 297	-2.678	78.836	50.386	1.00 83.32	BBBB
MOTA	6047	CB		B 297	-2.023	77.673	49.629	1.00 84.47	BBBB
ATOM	6048	CG		B 297	-2.099	76.357	50.382	1.00 84.39	BBBB BBBB
ATOM	6049			B 297	-1.746	76.320 75.350	51.579 49.765	1.00 84.16	BBBB
ATOM	6050 6051	C C		B 297 B 297	-2.504 -2.732	80.040	49.703	1.00 83.05	BBBB
ATOM ATOM	6051	0		B 297	-1.826	80.241	48.636	1.00 82.69	BBBB
ATOM	6053	N		B 298	-3.789	80.838	49.557	1.00 82.29	BBBB
ATOM	6054	CA		B 298	-3.931	81.996	48.695	1.00 81.24	BBBB
ATOM	6055	C		B 298	-4.794	81.673	47.494	1.00 79.27	BBBB
MOTA	6056	0	GLY	B 298	-5.369	82.565	46.870	1.00 79.37	. BBBB
MOTA	6057	N		B 299	-4.880	80.385	47.177	1.00 78.48	BBBB
ATOM	6058	CA		B 299	-5.670	79.912	46.050	1.00 77.23	BBBB BBBB
ATOM	6059	CB		B 299	-5.013	78.691	45.428	1.00 76.62	BBBB
ATOM	6060	C		B 299 B 299	-7.078 -7.415	79.574 79.784	46.507 47.664	1.00 75.74	BBBB
ATOM	6061 6062	И О		B 300	-7.415 -7.889	79.045	45.595	1.00 76.38	BBBB
ATOM ATOM	6063	CA		B 300	-9.277	78.687	45.885	1.00 76.34	BBBB
ATOM	6064	CB		B 300	-10.188	79.827	45.430	1.00 77.24	BBBB
ATOM	6065	CG		B 300	-11.664	79.609	45.658	1.00 78.99	BBBB
ATOM	6066	CD		B 300	-12.394	80.916	45.457	1.00 81.05	BBBB
MOTA	6067	NE		B 300	-11.921	81.930	46.393	1.00 83.46	BBBB
ATOM	6068	CZ		B 300	-12.297	82.006	47.666	1.00 85.02	BBBB
ATOM	6069			B 300	-13.162	81.129	48.154	1.00 85.48	BBBB BBBB
MOTA	6070	NH2	ARG	B 300	-11.799	82.951	48.456	1.00 85.46	9555

BBBB -9.652 77.389 45.167 1.00 75.20 6071 C ARG B 300 ATOM -9.587 77.323 43.947 1.00 76.11 BBBB ARG B 300 ATOM 6072 0 45.917 1.00 73.40 BBBB -10.049 76.364 6073 ALA B 301 ATOM N 45.327 1.00 71.60 BBBB ALA B 301 -10.400 75.073 ATOM 6074 CA 1.00 71.77 BBBB -9.391 45.759 ALA B 301 74.022 MOTA 6075 CB -11.806 74.600 ALA B 301 45.665 1.00 70.39 BBBB ATOM 6076 С -12.548 75.290 46.352 1.00 71.22 BBBB 6077 ALA B 301 MOTA 1.00 69.63 RRRR -12.153 73.408 45.186 CYS B 302 6078 ATOM N -13.475 72.817 BBBB 45.410 1.00 69.81 6079 CA CYS B 302 MOTA 1.00 70.92 BBBB -13.463 71.542 46.261 CYS B 302 6080 С ATOM 1.00 70.09 BBBB -12.996 70.495 45.818 MOTA 6081 0 CYS B 302 1.00 68.40 BBBB 44.077 6082 CB CYS B 302 -14.121 72.460 ATOM 1.00 65.62 BBBB -14.256 73.797 42.864 CYS B 302 ATOM 6083 SG 1.00 71.91 BBBB ALA B 303 -13.995 71.615 47.473 6084 N ATOM 1.00 71.37 BBBB ALA B 303 -14.04070.438 48.327 ATOM 6085 CA 49.796 1.00 73.18 BBBB ALA B 303 -13.972 70.842 ATOM 6086 CB 48.028 1.00 71.30 **BBBB** -15.346 69.714 ALA B 303 ATOM 6087 С 70.340 47.669 1.00 71.01 BBBB MOTA 6088 0 ALA B 303 -16.337 68.395 48.160 1.00 71.88 BBBB ALA B 304 -15.342 6089 ATOM N 47.884 1.00 71.97 BBBB 67.606 -16.532 MOTA 6090 CA ALA B 304 48.032 1.00 71.72 -16.223 66.127 BBBB MOTA CB ALA B 304 6091 1.00 73.18 BBBB -17.662 67.994 48.812 ALA B 304 MOTA 6092 С -17.469 68.109 50.024 1.00 72.92 BBBB 6093 0 ALA B 304 АТОМ 48.239 1.00 75.22 BBBB -18.846 68.195 CYS B 305 MOTA 6094 N 49.025 1.00 75.51 BBBB -20.012 68.570 MOTA 6095 CA CYS B 305 -20.337 67.431 49.998 1.00 77.37 BBBB CYS B 305 C MOTA 6096 1.00 77.10 BBBB -20.571 66.292 49.584 ATOM 6097 0 CYS B 305 RRRR CYS B 305 -21.212 68.846 48.108 1.00 74.53 6098 CB ATOM 1.00 76.81 -22.580 69.701 BBBB 48.956 6099 CYS B 305 MOTA SG 51.291 1.00 78.67 BBBB ALA B 306 -20.340 67.742 6100 N ATOM -20.623 66.747 52.314 1.00 79.35 BBBB 6101 CA ALA B 306 ATOM 53.523 1.00 78.45 BBBB -19.727 66.981 6102 CB ALA B 306 MOTA -22.087 66.742 52.741 1.00 77.98 BBBB 6103 С ALA B 306 ATOM 1.00 77.53 BBBB -22.514 67.578 53.536 6104 0 ALA B 306 ATOM 52.209 1.00 77.39 -22.845 65.789 BBBB ATOM 6105 N **GLY B 307** 52.552 1.00 77.35 BBBB -24.249 65.674 ATOM 6106 CA GLY B 307 52.253 1.00 76.38 BBBB **GLY B 307** -25.027 66.936 С MOTA 6107 51.152 1.00 77.04 BBBB -24.936 67.475 **GLY B 307** ATOM 6108 0 BBBB 46.511 1.00 70.90 -26.539 69.823 6109 N CYS B 309 ATOM 1.00 70.76 BBBB -25.612 70.413 47.468 MOTA 6110 CA CYS B 309 48.147 1.00 68.92 BBBB -26.262 ATOM 6111 C CYS B 309 71.632 48.453 1.00 68.09 BBBB -27.456 71.608 CYS B 309 MOTA 6112 0 46.747 1.00 71.77 47.841 1.00 72.47 70.801 BBBB -24.310 CB CYS B 309 ATOM 6113 BBBB 6114 -22.958 71.343 MOTA SG CYS B 309 -25.480 72.687 48.376---1.00--67.-37 BBBB MOTA 6115 N ALA B-310 49.023 1.00 64.60 BBBB -25.966 73.908 6116 CA ALA B 310 MOTA 49.235 1.00 66.24 BBBB -24.803 74.864 MOTA 6117 CB ALA B 310 74.608 48.236 1.00 62.95 BBBB ALA B 310 -27.070 MOTA 6118 С BBBB -27.815 75.414 48.778 1.00 62.35 ALA B 310 MOTA 6119 0 74.286 46.952 1.00 61.61 **BBBB** -27.152 6120 LYS B 311 АТОМ N RRRR 74.845 46.015 1.00 60.10 -28.124 MOTA 6121 CA LYS B 311 -29.468 BBBB 75.168 46.672 1.00 59.83 MOTA 6122 CB LYS B 311 BBBB 75.564 45.636 1.00 59.97 -30.533 CG LYS B 311 ATOM 6123 1.00 59.88 BBBB -31.895 75.830 46.250 MOTA 6124 CD LYS B 311 1.00 58.79 BBBB -33.015 75.633 45.233 MOTA 6125 CE LYS B 311 44.050 1.00 59.99 BBBB -32.913 76.529 6126 NZ LYS B 311 ATOM 45.333 1.00 58.80 BBBB -27.615 76.097 6127 LYS B 311 ATOM BBBB 77.207 45.640 1.00 58.77 6128 0 LYS B 311 -28.041 MOTA BBBB 75.907 44.406 1.00 57.83 -26.690 MOTA 6129 N VAL B 312 1.00 56.11 BBBB -26.149 77.020 43.659 6130 CA VAL B 312 MOTA 1.00 55.53 BBBB -24.741 76.696 43.146 MOTA 6131 CB VAL B 312 BBBB 42.600 1.00 55.22 CG1 VAL B 312 -24.079 77.949 MOTA 6132 BBBB -23.919 76.105 44.276 1.00 55.51 CG2 VAL B 312 ATOM 6133 BBBB 1.00 54.69 77.184 42.499 ATOM 6134 С VAL B 312 -27.119 BBBB -27.775 76.221 42.111 1.00 54.83 VAL B 312 ATOM 6135 0 -27.232 78.396 BBBB 41.964 1.00 54.15 MOTA 6136 N CYS B 313 BBBB -28.146 78.653 40.855 1.00 52.77 CA CYS B 313 MOTA 6137 BBBB -27.471 79.328 39.667 1.00 51.87 MOTA 6138 С CYS B 313 BBBB -26.643 80.227 39.834 1.00 50.44 MOTA 6139 0 CYS B 313 BEBB 79.496 41.339 1.00 52.69 -29.333 MOTA 6140 CB CYS B 313 BBBB 1.00 54.18 -30.388 78.618 42.543 MOTA 6141 SG CYS B 313 1.00 50.56 38.466 BBBB -27.824 78.873 ASN B 314 ATOM 6142 N 1.00 49.32 BBBB ASN B 314 -27.269 79.429 37.243 ATOM 6143 CA 36.034 1.00 49.72 BBBB -27.718 78.629 ASN B 314 CB ATOM 6144 1.00 50.43 BBBB -27.279 77.196 36.102 ATOM 6145 CG ASN B 314

MOTA	6146				314		-26.137	76.903	36.449	1.00 50.4	0 BBBB
atom Atom	6147 6148	ND2 C			314 314		-28.180 -27.728	76.288 80.860	35.762 37.090	1.00 51.2	
ATOM	6149	0			314		-28.892	81.182	37.030	1.00 48.7	
MOTA	6150	N			315		-26.804	81.717	36.678	1.00 48.0	
MOTA	6151	CA			315		-27.126	83.119	36.522	1.00 46.9	
ATOM ATOM	6152 6153	С 0			315 315		-27.292 -26.322	83.559 83.613	35.088 34.320	1.00 46.0	
MOTA	6154	N			316		-28.534	83.884	34.747	1.00 43.8	
MOTA	6155	CA			316		-28.922	84.347	33.424	1.00 42.7	D BBBB
ATOM ATOM	6156 6157	CB CG2			316 316		-29.824 -30.268	85.597	33.556	1.00 40.7	
ATOM	6158	CG1			316		-31.023	86.079 85.254	32.186 34.432	1.00 41.0	
MOTA	6159	CD1	ILE	В	316		-32.224	86.092	34.184	1.00 35.9	
ATOM ATOM	6160	C			316		-27.796	84.641	32.411	1.00 43.10	
ATOM	6161 6162	о И			316 317		-26.832 -27.938	85.357 84.063	32.696 31.223	1.00 41.8	
ATOM	6163	CA			317		-26.967	84.276	30.170	1.00 45.1	
ATOM	6164	С			317		-25.994	83.148	29.911	1.00 46.42	
ATOM ATOM	6165 6166	O N			317 318		-26.336 -24.757	82.117 83.368	29.329	1.00 44.14	
ATOM	6167	CA			318		-23.691	82.392	30.336 30.154	1.00 48.7	
ATOM	6168	CB			318		-22.311	83.013	30.529	1.00 50.26	
MOTA MOTA	6169 6170				318 318	•	-21.203	81.988	30.326	0.01 50.38	
ATOM	6170 6171				318		-22.050 -20.768	84.257 84.987	29.677 30.029	0.01 50.47	
MOTA	6172	Ç			318		-23.948	81.126	30.984	1.00 50.91	
ATOM	6173	0			318		-23.976	80.021	30.443	1.00 50.70	) BBBB
ATOM ATOM	6174 6175	n Ca			319 319		-24.146 -24.400	81.292 80.150	32.290	1.00 51.88	
ATOM	6176	C			319		-24.400	79.213	33.150 32.469	1.00 52.86 1.00 53.73	
ATOM	6177	0			319		-25.124	78.014	32.320	1.00 55.27	
MOTA	6178	N			320		-26.491	79.780	32.036	1.00 53.09	
ATOM ATOM	6179 6180	CA CB			320 320		-27.532 -28.264	79.028 78.104	31.356 32.341	1.00 51.59 1.00 51.34	
ATOM	6181	CG			320		-28.981	76.937	31.681	1.00 50.32	
ATOM	6182	CD			320		-29.492	77.290	30.297	1.00 50.13	
ATOM ATOM	6183 6184				320 320		-28.657 -30.723	77.418 77.458	29.372 30.144	1.00 48.84	
ATOM	6185	C			320		-28.483	80.089	30.800	1.00 49.87	
MOTA	6186	0			320		-28.010	81.082	30.237	1.00 51.31	BBBB
ATOM ATOM	6187 6188	N CA			321 321		-29.799	79.896	30.979	1.00 48.52	
ATOM	6189	CB	PHE		321		-30.823 -31.238	80.827 81.807	30.489 31.596	1.00 44.38	
ATOM	6190	CG ~	PHE		321		-31.579	81.157		1.00-39.30	
ATOM	6191	CD1			321		-30.585	80.668	33.740	1.00 39.57	
ATOM ATOM	6192 6193	CD2 CE1			321 321		-32.901 -30.908	81.049 80.077	33.324 34.978	1.00 39.59	
ATOM	6194	CE2	_				-33.235	80.460	34.559	1.00 37.45	
ATOM	6195	CZ			321		-32.240	79.976	35.383	1.00 37.04	BEBB
ATOM ATOM	6196 6197	C O			321 321		-30.261 -30.490	81.617 82.815	29.300 29.174	1.00 43.44 1.00 43.29	
ATOM	6198	N			322		-29.513	80.920	28.447	1.00 43.29	
ATOM	6199	CA			322		-28.852	81.481	27.267	1.00 42.37	BBBB
ATOM ATOM	6200 6201	CB CG	LYS		322		-29.027 -28.407	80.521 80.999	26.085 24.781	1.00 43.15 0.01 42.81	
ATOM	6202	CD	LYS				-26.896	81.120	24.889	0.01 42.81	
ATOM	6203	CE	LYS				-26.284	81.553	23.566	0.01 42.94	BBBB
ATOM ATOM	6204 6205	NZ C	LYS LYS				-26.596 -29.303	80.596	22.467	0.01 42.95	
ATOM	6206		LYS				-29.303	82.878 83.864	26.865 27.104	1.00 41.02	
MOTA	6207		ASP				-30.469	82.949	26.239	1.00 40.50	
MOTA	6208		ASP				-31.024	84.216	25.807	1.00 39.63	
ATOM ATOM	6209 6210		ASP ASP				-31.415 -30.241	84.128	24.330	1.00 39.31	
ATOM	6211	OD1					-29.248	83.775 84.533	23.438 23.433	0.01 39.26 0.01 39.14	
ATOM	6212	OD2	ASP	В	323		-30.311	82.740	22.742	0.01 39.17	BBBB
ATOM ATOM	6213		ASP				-32.239	84.560	26.677	1.00 38.87	BBBB
ATOM ATOM	6214 6215	О И	ASP SER				-33.313 -32.031	84.000 85.470	26.499 27.629	1.00 40.11 1.00 36.41	BBBB BBBB
ATOM	6216	CA	SER				-33.049	85.945	28.568	1.00 38.41	
MOTA	6217		SER				-33.239	84.958	29.720	1.00 31.65	BBBB
ATOM ATOM	6218 6219	OG C	SER SER				-33.797	83.736	29.294	1.00 27.86	BBBB
ATOM	6220	0	SER				-32.516 -31.644	87.263 87.268	29.129 29.998	1.00 33.82 1.00 34.22	BBBB BBBB
	-	-						2.1200			2220

DIROM.	6221 1	1	TEIL	325	-33.046	88.375	28.635	1.00 32.45	BBBB
ATOM ATOM		CA		B 325	-32.584	89.691	29.051	1.00 31.40	BBBB
ATOM		CB	LEU I		-33.396	90.756	28.315	1.00 27.98	BBBB
		OG CG	LEU I		-33.169	90.698	26.805	1.00 24.69	BBBB
ATOM			LEU I		-33.109	91.799	26.131	1.00 24.32	BBBB
ATOM						90.841	26.507	1.00 24.02	BBBB
ATOM			LEU !		-31.696		30.556	1.00 32.78	BBBB
ATOM		C	LEU I		-32.539	89.994		1.00 32.75	BBBB
ATOM		0	LEU !		-31.683	90.761	31.010	1.00 32.33	BBBB
ATOM		N	SER		-33.431	89.379	31.325	1.00 34.34	BBBB
MOTA		CA	SER		-33.491	89.614	32.766	1.00 34.34	BBBB
MOTA		CB	SER		-34.213	90.948	33.026		BBBB
MOTA		OG		B 326	-34.685	91.059	34.360	1.00 33.60	BBBB
ATOM		C	SER		-34.236	88.468	33.464	1.00 36.35	
ATOM		0		B 326	-34.681	87.516	32.807	1.00 37.25	BBBB
ATOM		N		B 327	-34.342	88.535	34.790	1.00 35.67	BBBB
ATOM	_	CA		B 327	-35.081	87.515	35.506	1.00 36.61	BBBB BBBB
MOTA		CB	ILE		-34.652	87.370	36.967	1.00 35.84	
ATOM				B 327	-35.715	86.612	37.729	1.00 35.55	BBBB
MOTA			ILE		-33.339	86.593	37.053	1.00 36.06	BBBB
ATOM				B 327	-32.893	86.259	38.475	1.00 35.14	BBBB
MOTA		С	ILE		-36.502	88.017	35.469	1.00 37.99	BBBB
MOTA	6242	0	ILE		-36.780	89.099	35.962	1.00 38.06	BBBB
ATOM	6243	N		B 328	-37.389	87.225	34.876	1.00 40.08	BBBB
ATOM	6244	CA	ASN	B 328	-38.791	87.584	34.733	1.00 41.54	BBBB
ATOM	6245	CB	ASN		-39.155	87.640	33.246	1.00 41.43	BBBB
MOTA	6246	CG	ASN	B 328	-38.835	86.340	32.506	1.00 44.08	BBBB
ATOM	6247	OD1	ASN	B 328	-39.327	85.268	32.874	1.00 46.44	BBBB
ATOM	6248	ND2	ASN	B 328	-38.012	86.445	31.460	1.00 43.98	BBBB
MOTA	6249	С	ASN	B 328	-39.773	86.660	35.456	1.00 43.76	BBBB
ATOM	6250	0	ASN	B 328	-39.383	85.822	36.274	1.00 43.95	BBBB
MOTA	6251	N	ALA	B 329	-41.053	86.837	35.122	1.00 45.84	BBBB
ATOM	6252	CA	ALA	B 329	-42.176	86.088	35.680	1.00 46.10	BBBB
MOTA	6253	CB	ALA	B 329	-43.452	86.458	34.956	1.00 46.38	BBBB
MOTA	6254	C	ALA	B 329	-41.971	84.601	35.580	1.00 46.98	BBBB
ATOM	6255	0	ALA	B 329	-42.801	83.817	36.030	1.00 48.20	BBBB
MOTA	6256	N	THR	B 330	-40.874	84.208	34.963	1.00 46.89	BBBB
ATOM	6257	CA	THR	B 330	-40.584	82.805	34.831	1.00 47.25	BBBB
ATOM	6258	CB	THR	B 330	-40.210	82.500	33.397	1.00 45.36	BBBB
ATOM	6259	OG1	. THR	B 330	-41.147	83.147	32.532	1.00 43.34	BBBB
MOTA	6260	CG2	THR	B 330	-40.269	81.012	33.148	1.00 46.06	BBBB
ATOM	6261	С	THR	B 330	-39.443	82.451	35.787	1.00 49.13	BBBB
ATOM	6262	0	THR	B 330	-39.676	82.028	36.914	1.00 48.65	BBBB
ATOM	6263	N	ASN	B 331	-38.215	82.641	35.328	1.00 50.75	BBBB
MOTA	6264	CA	ASN	B 331	-37.018	82.364	36.110	1.00 52.60	BBBB
ATOM	6265	CB	ASN	B 331	-36.017	83.479	35.874	1.00 52.98	
MOTA	6266	CG	ASN	B 331	-35.841	83.779	34.421	1.00 52.98	BBBB
ATOM	6267	OD:	L ASN	в 331	-36.813	83.934	33.686	1.00 51.88	BBBB
MOTA	6268	ND:	2 ASN	B 331	-34.597	83.869	33.990	1.00 54.62	BBBB
MOTA	6269	С	ASN	в 331	-37.223		37.615	1.00 53.93	BBBB
ATOM	6270	0		B 331	-36.764	81.214	38.193	1.00 54.41	BBBB
ATOM	6271	N	ILE	в 332	-37.885	83.154	38.256	1.00 54.69	BBBB
ATOM	6272	CA	ILE	B 332	-38.111	83.056	39.691	1.00 55.47	BBBB
MOTA	6273	CB	ILE	B 332	-38.988	84.224	40.211	1.00 55.06	BBBB
MOTA	6274	CG	2 ILE	В 332	-38.106	85.413	40.573		BBBB
MOTA	6275			В 332	-40.038	84.607			BBBB
MOTA	6276	CD	1 ILE	В 332	-41.135	83.592	38.983		BBBB
ATOM	6277	С		B 332	-38.763	81.715	40.027		BBBB
ATOM	6278	0	ILE	В 332	-38.596	81.185	41.128	1.00 57.94	BBBB
ATOM	6279	N	LYS	В 333	-39.493	81.159	39.064		BBBB
ATOM	6280	ÇA	LYS	В 333	-40.147	79.870	39.243	1.00 57.58	BBBB
MOTA	6281	CB	LYS	B 333	-41.103	79.588	38.076	1.00 57.74	BBBB
MOTA	6282	CG	LYS	B 333	-41.860	78.264	38.165	1.00 57.48	BBBB
ATOM	6283	CD	LYS	в 333	-42.754	78.060	36.953	0.01 57.55	BBBB
ATOM	6284	CE	LYS	B 333	-43.472		37.014	0.01 57.56	BBBB
ATOM	6285	NZ		B 333	-44.321				BBBB
ATOM	6286	С		B 333	-39.040			1.00 57.62	BBBB
ATOM	6287	Ö		B 333	-39.28				BBBB
ATOM	6288	N		B 334	-37.808				BBBB
MOTA	6289	CA		B 334	-36.652				BBBB
ATOM	6290	CE		B 334	-36.35				BBBB
ATOM	6291	CG		5 B 334	-35.69				BBBB
ATOM	6292			S B 334	-34.51				BBBB
ATOM	6293			S B 334	-36.24				
ATOM	6294			S B 334	-35.42				BBBB
ATOM	6295			S B 334	-34.37				BBBB
AION	0270	. 1.		•	-1.57				

MOTA	6296	C HIS B 334	-35.436	79.169	40.038	1.00 55.02	BBBB
ATOM	6297	O HIS B 334	-34.328	79.057	39.519		BBBB
ATOM	6298	N PHE B 335	-35.667	79.935	41.100		BBBB
ATOM	6299	CA PHE B 335	-34.619	80.693	41.780		BBBB
ATOM	6300	CB PHE B 335	-34.583	82.156	41.310		BBBB
ATOM	6301	CG PHE B 335	-33.648	82.404	40.162		BBBB
ATOM	6302	CD1 PHE B 335	-34.055	82.187	38.852		BBBB
MOTA	6303	CD2 PHE B 335	-32.345	82.810	40.393		
ATOM	6304	CE1 PHE B 335	-33.174	82.368	37.793		BBBB
ATOM	6305	CE2 PHE B 335	-31.459	82.992	39.336	1.00 46.15	BBBB
ATOM	6306	CZ PHE B 335	-31.876	82.770	38.037	1.00 45.75	BBBB
ATOM	6307	C PHE B 335	-34.936	80.663		=	BBBB
ATOM	6308	O PHE B 335	-34.395		43.266	1.00 51.61	BBBB
ATOM	6309	N LYS B 336	-35.814	81.447 79.746	44.040	1.00 52.18	BBBB
ATOM	6310	CA LYS B 336			43.659	1.00 51.09	BBBB
ATOM	6311	CB LYS B 336	-36.228	79.628	45.052	1.00 49.79	BBBB
ATOM	6312	CG LYS B 336	-37.404 -38.327	78.66 <b>7</b>	45.165	1.00 50.13	BBBB
ATOM	6313	CD LYS B 336		78.991	46.310	1.00 50.77	BBBB
ATOM	6314	CE LYS B 336	-38.930	80.358	46.104	1.00 52.44	BBBB
ATOM	6315	NZ LYS B 336	-39.556	80.459	44.717	1.00 53.63	BBBB
ATOM	6316	C LYS B 336	-40.605	79.413	44.500	1.00 55.18	BBBB
ATOM	6317		-35.120	79.170	45.989	1.00 48.81	BBBB
ATOM	6318	O LYS B 336	-34.319	78.307	45.647	1.00 47.92	BBBB
		N ASN B 337	-35.081	79.764	47.174	1.00 48.40	BBBB
ATOM	6319	CA ASN B 337	-34.087	79.417	48.179	1.00 48.48	BBBB
ATOM	6320	CB ASN B 337	-34.473	78.092	48.851	1.00 50.55	BEBB
ATOM	6321	CG ASN B 337	-35.394	78.278	50.059	1.00 52.07	BBBB
ATOM	6322	OD1 ASN B 337	-36.016	77.320	50.533	1.00 53.07	BEBB
ATOM	6323	ND2 ASN B 337	-35.468	79.500	50.570	1.00 52.83	BBBB
ATOM	6324	C ASN B 337	-32.641	79.320	47.689	1.00 47.50	BBBB
ATOM	6325	O ASN B 337	-31.827	78.678	48.333	1.00 47.18	BBBB
ATOM	6326	N CYS B 338	-32.303	79.937	46.565	1.00 47.51	BBBB
ATOM	6327	CA CYS B 338	-30.919	79.863	46.098	1.00 48.06	BBBB
ATOM	6328	C CYS B 338	-29.999	80.433	47.181	1.00 47.37	BBBB
ATOM	6329	O CYS B 338	-30.289	81.485	47.745	1.00 47.74	BBBB
ATOM	6330	CB CYS B 338	-30.733	80.658	44.797	1.00 49.63	BBBB
MOTA	6331	SG CYS B 338	-31.631	80.023	43.333	1.00 52.83	BBBB
MOTA	6332	N THR B 339	-28.906	79.732	47.483	1.00 46.07	BBBB
ATOM	6333	CA THR B 339	-27.943	80.186	48.496	1.00 44.56	BBBB
ATOM	6334	CB THR B 339	-27.118	78.996	49.064	1.00 45.41	BBBB
ATOM	6335	OG1 THR B 339	-26.054	79.485	49.891	1.00 45.85	BBBB
ATOM	6336	CG2 THR B 339	-26.522	78.169	47.935	1.00 47.50	BBBB
MOTA	6337	C THR B 339	-26.988	81.213	47.878	1.00 42.95	BBBB
MOTA	6338	O THR B 339	-26.803	82.311	48.404	1.00 41.51	BBBB
ATOM	6339	N SER B 340	-26.383	80.829	46.760	1.00 41.61	BBBB
MOTA	6340	CA SER B 340	-25.472	81.682	46.006	1-00-40.00	BBBB
ATOM	6341	CB SER B 340	-24.011	81.249	46.203	1.00 39.63	BBBB
MOTA	6342	OG SER B 340	-23.688	80.103	45.424	1.00 36.55	BBBB
ATOM	6343	C SER B 340	-25.878	81.410	44.571	1.00 39.38	BBBB
ATOM	6344	O SER B 340	-26.553	80.419	44.305	1.00 39.30	BBBB
MOTA	6345	N ILE B 341	-25.499	82.280	43.643	1.00 38.79	BBBB
MOTA	6346	CA ILE B 341	-25.833	82.020	42.244	1.00 37.29	BBBB
ATOM	6347	CB ILE B 341	-26.967	82.980	41.721	1.00 35.46	BBBB
ATOM	6348	CG2 ILE B 341	-28.218	82.814	42.567	1.00 35.12	BBBB
ATOM .	6349	CG1 ILE B 341	-26.520	84.431	41.741	1.00 33.30	BBBB
ATOM	6350	CD1 ILE B 341	-26.110	84.895	40.396	1.00 33.99	BBBB
MOTA	6351	C ILE B 341	-24.589	82.063	41.341	1.00 36.40	BBBB
ATOM	6352	O ILE B 341	-23.852	83.050	41.305	1.00 34.58	BBBB
ATOM	6353	N SER B 342	-24.340	80.944	40.664	1.00 35.98	BBBB
ATOM	6354	CA SER B 342	-23.213	80.810	39.748	1.00 35.85	BBBB
ATOM	6355	CB SER B 342	-22.821	79.338	39.590	1.00 38.14	BBBB
ATOM	6356	OG SER B 342	-21.873	79.166	38.550	1.00 40.56	BBBB
ATOM	6357	C SER B 342	-23.685	81.364	38.419	1.00 34.19	BBBB
ATOM	6358	O SER B 342	-24.448	80.732	37.705	1.00 33.81	BBBB
ATOM	6359	N GLY B 343	-23.232	82.559	38.099	1.00 33.29	BBBB
ATOM	6360	CA GLY B 343	-23.655	83.199	36.876	1.00 33.23	BBBB
ATOM	6361	C GLY B 343	-23.881	84.653	37.214	1.00 34.01	BBBB
ATOM	6362	O GLY B 343	-23.410	85.125	38.244	1.00 34.30	
ATOM	6363	N ASP B 344	-24.594	85.372	36.360	1.00 33.41	BBBB
ATOM	6364	CA ASP B 344	-24.849	86.779	36.609	1.00 34.63	BBBB
ATOM	6365	CB ASP B 344	-24.649	87.607	35.402	1.00 34.13	BBBB
ATOM	6366	CG ASP B 344	-24.420	87.052	34.724	1.00 38.86	BBBB
ATOM	6367	OD1 ASP B 344	-23.172	87.052	34.724	1.00 38.86	BBBB
ATOM	6368	OD2 ASP B 344	-23.233 -22.116	87.696	34.034	1.00 39.58	BBBB
ATOM	6369	C ASP B 344	-26.333	86.961	36.862	1.00 40.51	BBBB
ATOM	6370	O ASP B 344	-20.333 -27.147	86.110	36.506	1.00 33.92	BBBB BBBB
	-5.0		-1.14/	00.110	50.500	1.00 33.33	DDBB

ATOM	6371	N	LEU	В	345	-26.687	88.067	37.499	1.00	33.45	BBBB
ATOM	6372		LEU			-28.083	88.354	37.778	1 00	32.48	BBBB
ATOM	6373		LEU			-28.287	88.522	39.274		31.64	BBBB
ATOM	6374	CG	LEU	В	345	-29.442	87.717	39.847	1.00	32.32	BBBB
MOTA	6375	CD1	LEU	В	345	-29.323	86.254	39.445	1.00	31.36	BBBB
ATOM	6376	CD2				-29.431	87.861	41.348		31.67	BBBB
ATOM	6377	С	LEU	В	345	-28.373	89.652	37.052		32.73	BBBB
ATOM	6378	0	LEU	В	345	-27.600	90.602	37.171	1.00	33.94	BBBB
ATOM	6379	N	HIS	R	346	-29.456	89.681	36.276	1.00	31.32	BBBB
			HIS			-29.838	90.873	35.512		28.92	BBBB
ATOM	6380										
MOTA	6381	CB	HIS	В	346	-29.837	90.597	34.012		28.60	BBBB
ATOM	6382	CG	HIS	В	346	-28.494	90.299	33.440	1.00	28.13	BBBB
ATOM	6383	CD2	HTS	R	346	-27.337	89.915	34.022	1.00	28.34	BBBB
ATOM	6384	ND1				-28.237	90.385	32.089	1 00	28.62	BBBB
MOTA	6385	CE1	HIZ	В	346	-26.976	90.068	31.864		29.89	BBBB
MOTA	6386	NE2	HIS	В	346	-26.407	89.778	33.020	1.00	31.32	BBBB
ATOM	6387	С	HIS	В	346	-31.244	91.257	35.875	1.00	27.78	BBBB
ATOM	6388	Ō	HIS			-32.102	90.397	35.922	1 00	28.95	BBBB
MOTA	6389	N	ILE	В	34/	-31.494	92.539	36.101		27.09	BBBB
MOTA	6390	CA	ILE	В	347	-32.840	92.997	36.439	1.00	27.34	BBBB
MOTA	6391	CB	ILE	В	347	-32.963	93.346	37.947	1.00	26.18	BBBB
ATOM	6392		ILE			-34.341	93.898	38.244		25.75	BBBB
MOTA	6393	CG1	ILE	В	347	-32.711	92.103	38.797		25.30	BBBB
MOTA	6394	CD1	ILE	В	347	-32.924	92.305	40.271	1.00	24.11	BBBB
ATOM	6395	С	ILE	В	347	-33.204	94.242	35.633	1.00	28.70	BBBB
ATOM	6396	ō	ILE			-32.880	95.356	36.038		30.31	BBBB
ATOM	6397	N	LEU			-33.877	94.066	34.499		28.80	BBBB
ATOM	6398	CA	LEU	В	348	-34.265	95.210	33.664	1.00	29.33	BBBB
ATOM	6399	CB	LEU	В	348	-33.975	94.900	32.196	1.00	27.88	BBBB
ATOM	6400	CG	LEU		348	-32.628	94.201	31.968		27.12	BBBB
MOTA	6401		LEU			-32.264	94.243	30.489		27.78	BBBB
ATOM	6402	CD2	LEU	В	348	-31.544	94.876	32.782	1.00	25.91	BBBB
MOTA	6403	С	LEU	В	348	-35.742	95.555	33.860	1.00	29.92	BBBB
ATOM	6404	0	LEU		348	-36.466	94.825	34.514	1.00	30.12	BBBB
										31.75	BBBB
ATOM	6405	И			349	-36.206	96.688	33.318			
ATOM	6406	CD	PRO	В	349	-35.480	97.845	32.774	1.00	32.35	BBBB
ATOM	6407	CA	PRO	В	349	-37.623	97.012	33.517	1.00	32.64	BBBB
ATOM	6408	CB	PRO	R	349	-37.741	98.431	32.962	1.00	31.85	BBBB
					349	-36.574	98.571	32.056		32.06	BBBB
ATOM	6409	CG									
MOTA	6410	C	PRO	В	349	-38.597	96.041	32.883	-	33.16	BBBB
MOTA	6411	0	PRO	В	349	-39.765	95.974	33.243	1.00	32.32	BBBB
ATOM	6412	И	VAT.	В	350	-38.104	95.268	31.940	1.00	35.77	BBBB
	6413	CA			350	-38.947	94.295	31.282		39.21	BBBB
ATOM											
MOTA	6414	CB			350	-38.131	93.531	30.250		39.69	BBBB
ATOM .	6415	CG1	VAL	В	350	39:031-	92.691	29:389	1.00	40.98	BBBB
ATOM	6416	CG2	VAL	В	350	-37.335	94.520	29.420	1.00	41.00	BBBB
ATOM	6417	С			350	-39.483	93.336	32.336	1.00	40.08	BBBB
					350	-40.610	92.867	32.258		40.81	BBBB
ATOM	6418	0									
MOTA	6419	N		_	351	-38.659		33.337		42.01	BBBB
MOTA	6420	CA	ALA	В	351	-39.003	92.173	34.419	1.00	44.91	BBBB
ATOM	6421	CB	ALA	В	351	-37.763	91.881	35.259	1.00	43.68	BBBB
ATOM	6422	C			351	-40.113	92.697	35.313	1.00	47.44	BBBB
						-40.113	92.050	36.289		48.68	BBBB
ATOM	6423	0			351						
MOTA	6424	N			352	-40.657	93.861	34.996		49.63	BBBB
ATOM	6425	CA	PHE	В	352	-41.711	94.401	35.838	1.00	52.66	BBBB
MOTA	6426	CB			352	-41.164	95.562	36.656	1.00	52.83	BBBB
ATOM	6427	CG			352	-40.240	95.141	37.741		52.84	BBBB
MOTA	6428		PHE			-39.143	95.922	38.074		53.95	BBBB
ATOM	6429	CD2	PHE	В	352	-40.471	93.972	38.445	1.00	53.12	BBBB
ATOM	6430	CE1	PHE	В	352	-38.282	95.546	39.096	1.00	54.39	BBBB
ATOM	6431				352	-39.617	93.585	39.471	1.00	55.12	BBBB
ATOM	6432	CZ			352	-38.518	94.375	39.797		55.09	BBBB
ATOM	6433	С	PHE	₿	352	-42.936	94.848	35.066		54.66	BBBB
ATOM	6434	0	PHE	В	352	-44.041	94.897	35.620	1.00	55.20	BBBB
MOTA	6435	N			353	-42.733	95.181	33.793	1.00	55.53	BBBB
ATOM	6436					-43.820	95.626	32.936		56.97	BBBB
		CA			353						
MOTA	6437	CB			353	-43.401	96.847	32.120		58.74	BBBB
ATOM	6438	CG	ARG	; B	353	-42.443	96.528	30.977		0 61.31	BBBB
ATOM	6439	CD			353	-43.071	96.800	29.614	1.00	0 61.92	BBBB
ATOM	6440	NE			353	-43.323	98.223			63.75	BBBB
										0 64.99	BBBB
ATOM	6441	CZ			353	-42.378	99.161				
MOTA	6442	NH1	ARG	; E	353	-41.097	98.841	29.493		0 64.35	BBBB
MOTA	6443	NH2	ARG	F F	353	-42.716	100.428	29.132	1.00	0 65.92	BBBB
ATOM	6444	С			353	-44.146	94.487			0 57.33	BBBB
ATOM	6445	Ö			353	-45.220	94.449			0 58.35	BBBB
011	2342	0	אתכ	, ,		40.220	23.332	01.001	2.0		

ATOM	6446	N	GLY	В	354	-43.200	93.563	31.863	1.00 56.83	BBBB
ATOM	6447		GLY	В	354	-43.407	92.421	30.998	1.00 56.67	BBBB
ATOM	6448	С	GLY	В	354	-43.133	92.702	29.536	1.00 56.70	BBBB
MOTA	6449		GLY			-43.392	93.797	29.032	1.00 57.16	BBBB
MOTA	6450		ASP			-42.603	91.692	28.857	1.00 56.56	BBBB BBBB
MOTA	6451		ASP			-42.270	91.767	27.442 27.206	1.00 56.39 1.00 58.47	BBBB
ATOM	6452	CB	ASP			-40.884	91.160	25.757	1.00 50.47	BBBB
ATOM	6453	CG	ASP			-40.455 -41.259	91.218 90.846	24.875	1.00 60.82	BBBB
ATOM	6454	OD1 OD2				-41.258 -39.303	91.625	25.500	1.00 61.71	BBBB
MOTA	6455		ASP			-43.310	90.931	26.725	1.00 55.78	BBBB
ATOM ATOM	6456 6457	C O	ASP			-43.720	89.898	27.241	1.00 55.64	BBBB
ATOM	6458	N			356	-43.738	91.364	25.545	1.00 55.06	BBBB
ATOM	6459	CA			356	-44.731	90.601	24.807	1.00 54.22	BBBB
ATOM	6460	CB			356	-45.805	91.513	24.227	1.00 55.13	BBBB
ATOM	6461	OG	SER	В	356	-46.863	90.734	23.686	1.00 56.65	BBBB
ATOM	6462	С	SER	В	356	-44.094	89.803	23.690	1.00 53.19	BBBB
ATOM	6463	0	SER	В	356	-44.621	88.775	23.280	1.00 53.00	BBBB
MOTA	6464	N	PHE	В	357	-42.965	90.279	23.187	1.00 52.15	BBBB
MOTA	6465	CA			357	-42.284	89.564	22.120	1.00 51.45	BBBB
MOTA	6466	CB	PHE		357	-41.190	90.422	21.497	1.00 50.63	BBBB BBBB
MOTA	6467	CG			357	-40.396	89.704	20.451 19.226	1.00 50.42 1.00 49.99	BBBB
ATOM	6468		PHE			-40.969	89.386 89.311	20.703	1.00 50.80	BBBB
ATOM	6469		PHE			-39.086 -40.254	88.687	18.268	1.00 51.16	BBBB
ATOM	6470		PHE			-38.357	88.610	19.751	1.00 51.15	BBBB
MOTA	6471 6472	CZ			357	-38.942	88.296	18.530	1.00 51.77	BBBB
ATOM ATOM	6473	C			357	-41.659	88.294	22.684	1.00 50.81	BBBB
ATOM	6474	ō			357	-41.112	87.476	21.952	1.00 51.06	BBBB
ATOM	6475	N			358	-41.730	88.137	23.996	1.00 49.66	BBBB
ATOM	6476	CA	THR	В	358	-41.165	86.959	24.617	1.00 49.23	BBBB
ATOM	6477	CB	THR	В	358	-40.180	87.330	25.758	1.00 49.67	BBBB
ATOM	6478	OG1	THR	В	358	-39.295	88.368	25.323	1.00 50.24	BBBB
MOTA	6479	CG2			358	-39.340	86.140	26.121	1.00 49.18	BBBB
MOTA	6480	С			358	-42.322	86.163	25.185	1.00 48.68	BBBB BBBB
MOTA	6481	0			358	-42.135	85.265	25.999	1.00 49.07 1.00 48.13	BBBB
MOTA	6482	N			359	-43.531	86.500	24.754 25.239	1.00 47.15	BBBB
ATOM	6483	CA			359	-44.707 -44.779	85.802 84.417	24.571	1.00 47.13	BBBB
ATOM	6484	CB CG			359 359	-44.773	84.429	23.085	1.00 52.77	BBBB
ATOM ATOM	6485 6486				359	-43.397	84.116	22.376	1.00 52.88	BBBB
MOTA	6487				359	-45.462	84.792	22.149	1.00 54.36	BBBB
ATOM	6488				359	-44.947	84.701	20.934	1.00 54.33	BBBB
ATOM	6489				359	-43.694	84.292	21.043	1.00 53.18	BBBB
MOTA	6490	C.				44.481	85.685	26.757	1.00-45.99	BBBB
ATOM	6491	0			359	-44.719	84.641	27.355	1.00 46.35	BBBB BBBB
ATOM	6492	N			360	-44.013	86.781	27.361	1.00 44.51 1.00 41.93	BBBB
ATOM	6493	CA			360	-43.686	86.855 87.245	28.789 28.980	1.00 41.93	BBBB
ATOM	6494	CB			360	-42.217 -41.373	86.241	28.407	1.00 42.84	BBBB
ATOM	6495	OGI	mut		360 360	-41.898	87.411	30.460	1.00 40.49	BBBB
MOTA	6496 6497	C			360	-44.486	87.815	29.667	1.00 41.37	BBBB
MOTA MOTA	6498	o			360	-44.549	89.013	29.398	1.00 40.83	BBBB
ATOM	6499	N			3 361	-45.079	87.297	30.756	1.00 41.18	BBBB
ATOM	6500	CD			3 3 6 1	-45.286	85.849	30.915	1.00 40.72	BBBB
ATOM	6501	CA			3 361	-45.886	88.034	31.740		BBBB
ATOM	6502	CB	PRO	) I	361	-46.498	86.925	32.585	1.00 39.78	BBBB
ATOM	6503	CG	PRO	) E	361	-46.609	85.797	31.628	1.00 40.89	BBBB
ATOM	6504	С			3 361	-45.068	88.982	32.613		BBBB
MOTA	6505	0			3 361	-43.839	88.903		1.00 40.51 1.00 42.07	BBBB BBBB
ATOM	6506	N			3 362	-45.747	89.893			BBBB
ATOM	6507	CD			3 362	-47.178 -45.075	90.217 90.850			BBBB
ATOM	6508	CA CB			3 362 3 362	-46.182	91.847			BBBB
ATOM	6509	CG			B 362	-47.419	91.027			BBBB
ATOM ATOM	6510 6511	C			B 362	-44.499				BBBB
ATOM	6512	0			B 362	-43.891	89.094			BBBB
ATOM	6513				B 363	-44.677	90.690		1.00 42.61	BBBB
ATOM	6514	CA			В 363	-44.125				BBBB
ATOM	6515				B 363	-42.658	90.457			BBBB
ATOM	6516	CG	LE	U :	B 363	-41.575				BBBB
ATOM	6517				B 363	-40.213				BBBB
MOTA	6518				В 363	-41.824				BBBB BBBB
ATOM	6519				B 363	-44.915				BBBB
MOTA	6520	0	ĿΕ	U	B 363	-46.123	90.104	39.157	1.00 47.40	

MOTA	6596	CA THR B 373	-31.195	84.598	50.862	1.00 34.68	BBBB
MOTA	6597	CB THR B 373	-31.777	83.242	51.305	1.00 33.43	BBBB
ATOM	6598	OG1 THR B 373	-30.745	82.447	51.904	1.00 31.44	BBBB
ATOM	6599	CG2 THR B 373	-32.383	82.521	50.124	1.00 32.61	BBBB
ATOM	6600	C THR B 373	-29.928	84.334	50.055	1.00 34.35	BBBB
ATOM	6601	O THR B 373	-29.273	83.307	50.237	1.00 34.49	BBBB
ATOM	6602	N VAL B 374	-29.578	85.252	49.160	1.00 32.93	BBBB
MOTA MOTA	6603 6604	CA VAL B 374 CB VAL B 374	-28.372	85.084	48.364	1.00 32.39	BBBB
MOTA	6605	CG1 VAL B 374	-28.538 -27.222	85.652 85.578	46.929	1.00 31.65	BBBB
ATOM	6606	CG2 VAL B 374	-29.580	84.872	46.183 46.175	1.00 30.92	BBBB
ATOM	6607	C VAL B 374	-27.252	85.823	49.077	1.00 30.10	BBBB BBBB
ATOM	6608	O VAL B 374	-27.394	86.989	49.409	1.00 31.83	BBBB
ATOM	6609	N LYS B 375	-26.144	85.131	49.321	1.00 33.40	BBBB
MOTA	6610	CA LYS B 375	-25.003	85.725	50.005	1.00 33.33	BBBB
ATOM	6611	CB LYS B 375	-24.539	84.831	51.165	1.00 34.42	BBBB
ATOM	6612	CG LYS B 375	-25.582	84.592	52.263	1.00 33.74	BBBB
ATOM	6613	CD LYS B 375	-26.667	83.611	51.829	1.00 32.93	BBBB
ATOM	6614	CE LYS B 375	-26.114	82.211	51.625	0.01 33.09	BBBB
ATOM ATOM	6615 6616	NZ LYS B 375	-27.202	81.244	51.312	0.01 32.83	BBBB
ATOM	6617	C LYS B 375 O LYS B 375	-23.851 -22.979	85.936 86.758	49.043 49.295	1.00 33.00 1.00 32.82	BBBB
ATOM	6618	N GLU B 376	-23.846	85.185	47.945	1.00 32.82	BBBB BBBB
ATOM	6619	CA GLU B 376	-22.790	85.314	46.940	1.00 34.43	BBBB
ATOM	6620	CB GLU B 376	-21.655	84.319	47.220	1.00 33.55	BBBB
ATOM	6621	CG GLU B 376	-20.515	84.370	46.215	0.01 33.57	. BBBB
ATOM	6622	CD GLU B 376	-19.450	83.329	46.495	0.01 33.41	BBBB
MOTA	6623	OE1 GLU B 376	-19.774	82.123	46.471	0.01 33.30	BBBB
ATOM	6624	OE2 GLU B 376	-18.289	83.716	46.740	0.01 33.29	BBBB
MOTA	6625	C GLU B 376	-23.264	85.146	45.486	1.00 34.90	BBBB
ATOM	6626	O GLU B 376	-24.081	84.275	45.163	1.00 34.20	BBBB
ATOM ATOM	6627	N ILE B 377	-22.732	86.010	44.625	1.00 35.06	BBBB
ATOM	6628 6629	CA ILE B 377 CB ILE B 377	-23.017 -23.733	86.009	43.195	1.00 34.83	BBBB
ATOM	6630	CG2 ILE B 377	-23.733	87.315 87.378	42.755 41.249	1.00 35.18 1.00 33.96	BBBB
ATOM	6631	CG1 ILE B 377	-25.138	87.363	43.342	1.00 35.70	BBBB BBBB
ATOM	6632	CD1 ILE B 377	-25.830	88.673	43.092	1.00 36.56	BBBB
MOTA	6633	C ILE B 377	-21.660	85.907	42.497	1.00 34.90	BBBB
MOTA	6634	O ILE B 377	-20.839	86.824	42.575	1.00 33.54	BBBB
MOTA	6635	N THR B 378	-21.436	84.775	41.831	1.00 35.70	BBBB
ATOM	6636	CA THR B 378	-20.188	84.504	41.122	1.00 35.91	BBBB
ATOM	6637	CB THR B 378	-20.190	83.083	40.516	1.00 37.88	BBBB
MOTA MOTA	6638 6639	OG1 THR B 378 CG2 THR B 378	-21.237	82.973	39.543	1.00 39.67	BBBB
ATOM	6640	C THR B 378	-20.417 -19:926	82.046 85.498	41.597 40.004	1.00 38.56 1.00 34.19	BBBB BBBB
ATOM	6641	O THR B 378	-18.802	85.953	39.823	1.00 33.50	BBBB
MOTA	6642	N GLY B 379	-20.966	85.830	39.252	1.00 33.65	BBBB
<b>ATOM</b>	6643	CA GLY B 379	-20.806	86.773	38.160	1.00 34.91	BBBB
ATOM	6644	C GLY B 379	-20.874	88.241	38.555	1.00 35.00	BBBB
ATOM	6645	O GLY B 379	-20.083	88.730	39.376	1.00 35.52	BBBB
ATOM	6646	N PHE B 380	-21.820	88.955	37.959	1.00 33.14	BBBB
ATOM	6647	CA PHE B 380	-21.973	90.361	38.255	1.00 31.35	BBBB
ATOM ATOM	6648	CB PHE B 380	-21.439	91.216	37.080	1.00 32.11	BBBB
ATOM	6649 6650	CG PHE B 380 CD1 PHE B 380	-22.220	91.082	35.778	1.00 32.55	BBBB
ATOM	6651	CD2 PHE B 380	-23.535 -21.616	91.529 90.567	35.670 34.644	1.00 32.68 1.00 32.11	BBBB BBBB
ATOM	6652	CE1 PHE B 380	-24.223	91.467	34.460	1.00 32.11	BBBB
ATOM	6653	CE2 PHE B 380	-22.305	90.507	33.435	1.00 31.63	BBBB
ATOM	6654	CZ PHE B 380	-23.608	90.958	33.349	1.00 30.27	BBBB
MOTA	6655	C PHE B 380	-23.424	90.694	38.576	1.00 30.56	BBBB
ATOM	6656	O PHE B 380	-24.325	89.879	38.341	1.00 30.65	BBBB
ATOM	6657	N LEU B 381	-23.633	91.879	39.144	1.00 28.35	BBBB
ATOM	6658	CA LEU B 381	-24.960	92.359	39.494	1.00 26.07	BBBB
ATOM ATOM	6659 6660	CB LEU B 381	-25.030	92.660	40.994	1.00 25.24	BBBB
ATOM	6661	CG LEU B 381 CD1 LEU B 381	-26.269 -27.526	93.412	41.514	1.00 26.85	BBBB
ATOM	6662	CD2 LEU B 381	-27.526 $-26.114$	<i>92.</i> 587 93.731	41.270 42.998	1.00 27.17 1.00 23.04	BBBB BBBB
ATOM	6663	C LEU B 381	-25.114 -25.213	93.731	38.692	1.00 23.04	BBBB
ATOM	6664	O LEU B 381	-24.467	94.591	38.804	1.00 25.16	BBBB
ATOM	6665	N LEU B 382	-26.254	93.627	37.871	1.00 24.12	BBBB
ATOM	6666	CA LEU B 382	-26.615	94.780	37.054	1.00 22.52	BBBB
ATOM	6667	CB LEU B 382	-26.386	94.481	35.580	1.00 22.74	BBBB
ATOM	6668.	CG . LEU B 382	-26.611	95.535	34.488	1.00 23.37	BBBB
ATOM	6669	CD1 LEU B 382	-26.581	94.819	33.152	1.00 21.75	BBBB
ATOM	6670	CD2 LEU B 382	-27.941	96.242	34.628	1.00 23.67	BBBB

ATOM	6671	С	LEU	В	382	-28	. 084	95.000	37.256	1.00	21.98	BBBB
MOTA	6672	0	LEU	В	382	-28	. 878	94.143	36.890	1.00	22.28	BBBB
ATOM	6673	N	ILE		383		.453	96.135	37.837		21.77	BBBB
ATOM	6674	CA	ILE				.867	96.450	38.063		22.66	BBBB
ATOM ATOM	6675 6676	CB CG2	ILE				.218 .614	96.610 97.214	39.557 39.697		21.49 21.52	BBBB BBBB
ATOM	6677		ILE				.142	95.267	40.266		18.19	BBBB
ATOM	6678		ILE		383		. 592	95.342	41.685		18.00	BBBB
ATOM	6679	C	ILE				.196	97.759	37.389		22.92	BBBB
MOTA	6680	0	ILE	В	383	-29	. 497	98.743	37.602	1.00	22.60	BBBB
MOTA	6681	N	GLN				.265	97.757	36.591		24.72	BBBB
ATOM	6682	CA	GLN		384		.707	98.936	35.851		26.23	BBBB
MOTA	6683 6684	CB	GLN		384		.620	98.691	34.346		27.06	BBBB
ATOM ATOM	6685	CG	GLN GLN		384 384		.212 .167	98.464 98.347	33.832 32.333		28.43 29.92	BBBB BBBB
ATOM	6686		GLN		384		.099	98.397	31.722		31.49	BBBB
ATOM	6687		GLN				. 333	98.189	31.723		31.37	BBBB
MOTA	6688	C	GLN		384		.120	99.325	36.193		26.94	BBBB
MOTA	6689	0	GLN	В	384	-33	. 571	100.394	35.811	1.00	27.79	BBBB
MOTA	6690	И	ALA		385		.822	98.444	36.895		28.40	BBBB
ATOM	6691	CA	ALA				.192	98.702	37.323		30.26	BBBB
MOTA	6692	CB	ALA ALA				.168	98.252	36.261		29.44	BBBB
ATOM ATOM	6693 6694	С 0	ALA		385		.462 .999	97.969 96.852	38.631 38.822		31.84 34.18	BBBB BBBB
ATOM	6695	И	TRP		386		. 205	98.601	39.530		32.75	BBBB
ATOM	6696	CA	TRP		386		.534	98.017	40.828		34.53	BBBB
ATOM	6697	CB	TRP		386		.765	98.744	41.926		34.73	BBBB
ATOM	6698	CG	TRP		386		.413	97.918	43.103		35.48	BBBB
ATOM	6699	CD2	TRP	В	386	-34	. 977	96.553	43.108	1.00	36.61	BBBB
ATOM	6700		TRP	_	386	-34	.721	96.204	44.451	1.00	36.33	BBBB
ATOM	6701		TRP				.777	95.592	42.113		37.11	BBBB
MOTA	6702		TRP		386		.403	98.325	44.395		36.05	BBBB
ATOM	6703		TRP				.989	97.305	45.215		37.41	BBBB
ATOM ATOM	6704 6705		TRP		386		. 277	94.935 94.325	44.828		35.78 37.74	BBBB
ATOM	6706		TRP				.335	94.010	42.487 43.836		36.74	BBBB BBBB
ATOM	6707	C			386		.028	98.227	41.027		36.90	BBBB
ATOM	6708	ō			386		.651	98.987	40.283		38.05	BBBB
ATOM	6709	N			387		. 634	97.563	42.027		38.30	BBBB
ATOM	6710	CD	PRO	В	387	-38	.184	96.361	42.752	1.00	37.15	BBBB
ATOM	6711	CA	PRO				.080	97.768	42.213		38.62	BBBB
ATOM	6712	CB	PRO		387		.446	96.695	43.236		37.79	BBBB
ATOM	6713	CG			387		.473	95.597	42.926		36.94	BBBB
ATOM ATOM	6714 6715	C	PRO		387 387		.523	99.182 99.979	42.649 43.189		39.55	BBBB BBBB
ATOM	6716	N	ARG				.680	98.871	45.713		60.31	BBBB
MOTA	6717	CA			390		.673	99.910	45.894		59.47	BBBB
ATOM	6718	CB			390			101.227	46.302		61.97	BBBB
ATOM	6719	CG	ARG	В	390			101.076	47.356	1.00	65.64	BBBB
ATOM	6720	CD	ARG	В	390	-43	.895	100.778	48.753	1.00	68.81	BBBB
MOTA	6721	NE			390			100.209	49.627		71.45	BBBB
MOTA	6722	CZ			390		.565	99.073	49.373		72.75	BBBB
ATOM ATOM	6723 6724		ARG				.296	98.379	48.271		72.88	BBBB
ATOM	6725	C	ARG		390		.663	98.631 99.495	50.216 46.948		72.78 57.41	BBBB BBBB
ATOM	6726	o			390		.033	99.000	48.012		58.13	BBBB
ATOM	6727	N			391		.384	99.670	46.640		53.62	BBBB
ATOM	6728	CA			391		.343	99.328	47.588		50.14	BBBB
ATOM	6729	CB			391	-38	.423	98.226	47.033	1.00	50.81	BBBB
MOTA	6730		THR			-39	.178	97.011	46.930	1.00	50.70	BBBB
ATOM	6731		THR				.242	97.974	47.959		50.83	BBBB
ATOM	6732	С			391			100.616	47.904		47.42	BBBB
ATOM	6733	0			391			101.681	47.744		47.89	BBBB
ATOM ATOM	6734 6735	N			392 392			100.553			44.29 42.16	BBBB BBBB
ATOM	6736	CA CB			392 392			101.775	48.717 49.918		42.16	BBBB
ATOM	6737	CG			392			102.355	49.916		49.25	BBBB
ATOM	6738		ASP					104.406			51.78	BBBB
ATOM	6739		ASP					104.456			52.50	BBBB
ATOM	6740	С			392			101.415	49.098		40.33	BBBB
MOTA	6741	0			392	-34	.342	102.244	49.028		37.79	BBBB
MOTA	6742	N			393			100.166			38.35	BBBB
ATOM	6743	CA			393		.840				34.78	BBBB
ATOM ATOM	6744	CB			393		3.862	98.994	51.409		28.74	BBBB
AT OM	6745	CG	TIPU	В	393	-34	1.734	97.961	52.193	1.00	22.05	BBBB

7 ELON	6746	CDI	LEU E	2 303	-34.107	97.665	53.503	1.00 15.92	BBBB
ATOM	6747		LEU I		-36.100	98.467	52.488	1.00 18.82	BBBB
ATOM	6748	C		B 393	-33.477	98.557	48.842	1.00 35.23	BBBB
ATOM	6749	0		B 393	-33.449	98.895	47.661	1.00 32.27	BBBB
ATOM		И		B 394	-33.237	97.308	49.228	1.00 37.25	BBBB
ATOM	6750			B 394	-32.828	96.261	48.295	1.00 37.52	BBBB
ATOM	6751	CA				96.506	47.867	1.00 36.36	BBBB
ATOM	6752	CB	HIS		-31.379	97.247	46.573	1.00 38.35	BBBB
ATOM	6753	CG	HIS !		-31.231		45.519	1.00 37.34	BBBB
ATOM	6754		HIS I		-32.070	97.383		1.00 37.34	BBBB
ATOM	6755		HIS		-30.053	97.862	46.201 44.974	1.00 36.20	BBBB
ATOM	6756		HIS !		-30.172	98.337		1.00 36.31	BBBB
ATOM	6757		HIS		-31.387	98.058	44.537	1.00 38.87	BBBB
MOTA	6758	C	HIS		-32.899	94.904	48.992	1.00 38.87	BBBB
ATOM	6759	0		B 394	-32.128	94.646	49.918		BBBB
MOTA	6760	N	ALA		-33.810	94.036	48.561	1.00 37.67	
MOTA	6761	CA		B 395	-33.932	92.701	49.148	1.00 34.77	BBBB
ATOM	6762	CB	ALA		-35.143	92.008	48.584	1.00 35.87	BBBB
ATOM	6763	С	ALA		-32.677	91.853	48.894	1.00 34.13	BBBB
ATOM	6764	0	ALA	B 395	-32.749	90.636	48.769	1.00 33.22	BBBB
ATOM	6765	N	PHE	B 396	-31.536	92.525	48.787	1.00 32.94	BBBB
MOTA	6766	CA	PHE	B 396	-30.239	91.899	48.600	1.00 30.16	BBBB
ATOM	6767	CB	PHE	B 396	-29.449	92.568	47.464	1.00 29.68	BBBB
ATOM	6768	CG	PHE	B 396	-29.651	91.946	46.101	1.00 27.56	BBBB
ATOM	6769	CD1	PHE	B 396	-29.413	90.595	45.890	1.00 27.24	BBBB
ATOM	6770	CD2	PHE	B 396	-30.051	92.729	45.021	1.00 27.20	BBBB
ATOM	6771	CE1	PHE	B 396	-29.571	90.039	44.636	1.00 26.83	BBBB
ATOM	6772	CE2		B 396	-30.212	92.184	43.763	1.00 24.99	BBBB
ATOM	6773	CZ	PHE		-29.973	90.842	43.568	1.00 27.16	BBBB
ATOM	6774	C	PHE		-29.532	92.195	49.920	1.00 30.72	BBBB
ATOM	6775	Ö		B 396	-28.305	92.208	49.991	1.00 30.70	BBBB
ATOM	6776	N		B 397	-30.323	92.443	50.963	1.00 31.05	BBBB
ATOM	6777	CA	GLU		-29.799	92.760	52.299	1.00 31.59	BBBB
ATOM	6778	CB	GLU		-30.931	92.774	53.320	1.00 31.76	BBBB
ATOM	6779	CG	GLU		-31.686	91.464	53.445	0.01 30.90	BBBB
	6780	CD	GLU		-32.673	91.479	54.594	0.01 30.61	BBBB
ATOM	6781	OE1			-33.527	92.389	54.633	0.01 30.45	BBBB
ATOM				B 397	-32.598	90.580	55.458	0.01 30.48	BBBB
ATOM	6782	C	GLU		-28.704	91.830	52.814	1.00 32.08	BBBB
ATOM	6783			B 397	-27.866	92.236	53.618	1.00 31.49	BBBB
ATOM	6784	0		B 398	-28.713	90.584	52.349	1.00 32.34	BBBB
ATOM	6785	N		B 398	-27.727	89.611	52.781	1.00 30.48	BBBB
ATOM	6786	CA			-28.399	88.270	53.034	1.00 29.75	BBBB
ATOM	6787	CB		B 398	-29.707	88.406	53.766	1.00 30.12	BBBB
ATOM	6788	CG		B 398 B 398	-29.888	89,298	54.587	1.00 30.73	BBBB
ATOM	6789	OD1			-30.624		. 53.489		BBBB
ATOM				B-398 B 398	-26.571	89.399	51.813	1.00 30.31	BBBB
ATOM	6791	С	ASN		-25.634	88.692	52.142	1.00 30.57	BBBB
MOTA	6792	0	ASN			89.989	50.625	1.00 29.82	BBBB
ATOM	6793	N	FEA		-26.620				BBBB
MOTA	6794	CA		B 399	-25.524	89.789	49.680 48.382	1.00 31.31	BBBB
MOTA	6795	CB		B 399	-25.791	90.570	47.112	1.00 28.93	BBBB
MOTA	6796	CG		B 399	-25.086	90.078	46.555	1.00 20.33	BBBB
MOTA	6797			B 399	-25.867	88.919		1.00 26.53	BBBB
MOTA	6798			B 399	-24.988	91.174	46.080	1.00 20.33	BBBB
MOTA	6799	С		B 399	-24.169	90.208	50.302 50.470	1.00 31.72	BBBB
ATOM	6800	0		В 399	-23.892	91.392			BBBB
MOTA	6801	N		B 400	-23.333	89.219	50.622	1.00 33.21	BBBB
MOTA	6802	CA		B 400	-22.019	89.434	51.248	1.00 34.28	
ATOM	6803	CB		B 400	-21.730	88.317	52.253	1.00 36.96	BBBB
ATOM	6804	CG		B 400	-22.843	88.093	53.258	1.00 42.23	BBBB
ATOM	6805	CD		B 400	-22.462	87.121	54.356	1.00 44.52	BBBB
ATOM	6806	OE:	L GLU	B 400	-23.347	86.769		1.00 46.09	BBBB
MOTA	6807	OE2	2 GLU	B 400	-21.280	86.719	54.405	1.00 45.40	BBBB
MOTA	6808	С	GLU	B 400	-20.831	89.522		1.00 33.46	BBBB
ATOM	6809	0	GLU	B 400	-19.882	90.276		1.00 33.07	BBBB
ATOM	6810	N		B 401	-20.869	88.735		1.00 32.94	BBBB
ATOM	6811	CA		B 401	-19.777	88.736	48.267	1.00 32.86	BBBB
ATOM	6812	CB		B 401	-18.838	87.506		1.00 35.06	BBBB
ATOM	6813			B 401	-17.599	87.653		1.00 34.82	BBBB
ATOM	6814			B 401	-18.413	87.383		1.00 36.89	BBBB
ATOM	6815			B 401	-17.475	86.204		1.00 36.51	BBBB
ATOM	6816			B 401	-20.257	88.701		1.00 30.62	BBBB
ATOM	6817			B 401	-21.123	87.913		1.00 30.45	BBBB
ATOM	6818			B 402	-19.705	89.582		1.00 28.99	BBBB
ATOM	6819			B 402	-20.010	89.595		1.00 28.33	BBBB
ATOM	6820			B 402	-20.509	90.974		1.00 29.35	BBBB
	5520	00			22.27				

ATOM	6821	CG2	ILE	В	402	-20.836	90.850	42.564	1.00 29.84	BBBB
ATOM	6822	CG1			402	-21.782	91.430	44.753	1.00 29.51	BBBB
ATOM	6823	CD1				-22.218	92.830	44.354	1.00 27.58	BBBB
ATOM	6824	C	ILE			-18.639	89.328	43.965	1.00 26.96	BBBB
ATOM	6825	o	ILE			-17.797	90.220	43.910	1.00 23.71	BBBB
ATOM	6826	N	ARG		403	-18.403	88.088	43.556	1.00 27.66	BBBB
ATOM	6827	CA	ARG		403	-17.127	87.729	42.974	1.00 30.16	BBBB
ATOM	6828	CB	ARG		403	-17.188	86.317	42.429	1.00 30.85	BBBB
ATOM	6829	CG	ARG		403	-17.245	85.270	43.500	1.00 30.03	BBBB
ATOM	6830	CD	ARG		403	-15.902	85.107	44.176	1.00 34.30	BBBB
ATOM	6831	NE	ARG		403	-16.015	84.322	45.397	1.00 34.39	BBBB
ATOM	6832	CZ	ARG		403	-15.020	84.137	46.252	1.00 34.37	BBBB
ATOM	6833	NH1			403	-13.825	84.672	46.023	1.00 31.66	BBBB
MOTA	6834	NH2			403	-15.238	83.439	47.351	1.00 34.75	BBBB
ATOM	6835	С	ARG			-16.754	88.702	41.864	1.00 32.49	BBBB
MOTA	6836	0	ARG	В	403	-16.260	89.806	42.134	1.00 35.31	BBBB
ATOM	6837	N	GLY		404	-16.992	88.303	40.618	1.00 31.67	BBBB
ATOM	6838	CA	GLY	В	404	-16.666	89.168	39.502	1.00 30.86	BBBB
ATOM	6839	C	GLY	В	404	-15.914	88.449	38.403	1.00 30.15	BBBB
ATOM	6840	0	GLY	В	404	-15.156	89.047	37.652	1.00 29.75	BBBB
MOTA	6841	N	ARG	В	405	-16.127	87.150	38.306	1.00 30.02	BBBB
MOTA	6842	CA	ARG	В	405	-15.464	86.375	37.289	1.00 30.09	BBBB
MOTA	6843	CB	ARG	В	405	-15.740	84.892	37.531	1.00 28.71	BBBB
ATOM	6844	CG	ARG	В	405	-15.271	84.434	38.902	1.00 26.99	BBBB
ATOM	6845	CD			405	-15.296	82.930	39.032	1.00 29.51	BBBB
ATOM	6846	NE			405	-14.886	82.463	40.357	1.00 31.40	BBBB
ATOM	6847	CZ			405	-15.722	82.015	41.291	1.00 32.64	BBBB
ATOM	6848		ARG			-17.026	81.968	41.057	1.00 31.79	BBBB
ATOM	6849		ARG			-15.252	81.602	42.462	1.00 32.84	BBBB
					405	-15.987		35.936	1.00 30.27	BBBB
ATOM	6850	C			405		86.859		1.00 30.27	BBBB
ATOM	6851	0				-15.262	86.897	34.946		
ATOM	6852	N			406	-17.247	87.255	35.905	1.00 29.52	BBBB
ATOM	6853	CA			406	-17.836	87.773	34.687	1.00 29.14	BBBB
ATOM	6854	CB			406	-18.979	86.887	34.228	1.00 28.44	BBBB
ATOM	6855				406	-19.984	86.855	35.244	1.00 29.03	BBBB
MOTA	6856				406	-18.478	85.474	33.987	1.00 28.00	BBBB
ATOM	6857	С	THR			-18.340	89.190	34.977	1.00 29.79	BBBB
MOTA	6858	0			406	-18.996	89.453	35.992	1.00 29.40	BBBB
ATOM	6859	N			407	-18.016	90.107	34.081	1.00 29.17	BBBB
ATOM	6860	CA	LYS	В	407	-18.395	91.499	34.252	1.00 28.68	BBBB
ATOM	6861	ÇB	LYS	₿	407	-17.130	92.365	34.206	1.00 28.31	BBBB
ATOM	6862	CG	LYS	В	407	-15.950	91.819	35.035	1.00 26.78	BBBB
ATOM	6863	CD	LYS	В	407	-14.728	92.710	34.902	0.01 26.53	BBBB
ATOM	6864	CE	LYS	В	407	-13.556	92.164	35.700	0.01 26.18	BBBB
MOTA	6865	NZ	LYS	В	407.	-12.345	93.019	35.561	0.01 25.91	BBBB
ATOM	6866	С	LYS	В	407	-19.355	91.920	33.145	1.00 28.51	BBBB
ATOM	6867	0	LYS	В	407	-19.318	91.359	32.055	1.00 30.01	BBBB
MOTA	6868	N	GLN	В	408	-20.229	92.886	33.426	1.00 27.63	BBBB
MOTA	6869	CA	GLN	ΙВ	408	-21.159	93.382	32.415	1.00 25.77	BBBB
MOTA	6870	CB	GLN	В	408	-22.357	94.068	33.074	1.00 26.05	BBBB
MOTA	6871	CG	GLN	В	408	-23.157	94.969	32.151	1.00 27.53	BBBB
MOTA	6872	CD	GLN	В	408	-23.820	94.217	31.040	1.00 29.27	BBBB
ATOM	6873	OE1	GLN	В	408	-23.334	93.177		1.00 31.99	BBBB
MOTA	6874	NE2	GLN	ΙВ	408	-24.932	94.742	30.536	1.00 28.69	BBBB
MOTA	6875	С	GLN	B	408	-20.359	94.356	31.550	1.00 25.39	BBBB
MOTA	6876	0			408	-19.632	95.214		1.00 22.33	BBBB
ATOM	6877	N			409	-20.493	94.191	30.234	1.00 27.08	BBBB
ATOM	6878				409	-19.769	94.975	29.234	1.00 28.73	BBBB
ATOM	6879	CB			409	-20.147	96.449	29.299		BBBB
ATOM	6880				409	-21.505	96.736	28.745	1.00 29.82	BBBB
ATOM	6881				409	-22.361	95.955	28.047	1.00 28.65	BBBB
ATOM	6882				409	-22.124	97.959		1.00 29.14	BBBB
ATOM	6883				409	-23.304	97.917	28.292	1.00 29.34	BBBB
MOTA	6884				409	-23.472	96.712		1.00 28.95	BBBB
MOTA	6885	C			409	-18.306	94.809		1.00 30.07	BBBB
ATOM	6886	0			409	-17.521	95.721	29.330	1.00 31.55	BBBB
ATOM	6887	N			410	-17.948	93.621	29.978	1.00 31.85	BBBB
MOTA	6888	CA			410	-16.566	93.330		1.00 34.37	BBBB
ATOM	6889	С			410	-15.883	94.293		1.00 34.01	BBBB
ATOM	6890	0			410	-14.659	94.294		1.00 35.15	BBBB
MOTA	6891	N			411	-16.657	95.095		1.00 33.54	BBBB
ATOM	6892	CA			411	-16.076	96.055			BBBB
ATOM	6893	CB			411	-16.204	97.469	32.356		BBBB
MOTA	6894	CG			411	-15.236	97.790			BBBB
ATOM	6895	CD	GLì	1 E	411	-13.824	97.898	31.778	1.00 41.23	BBBB

ATOM	6896	OE1	GLN	В	411	-13.501	98.806	32.543	1.00 42.41	BBBB
ATOM	6897	NE2	GLN	В	411	-12.970	96.968	31.364	1.00 43.11	BBBB
ATOM	6898	С	GLN			-16.664	96.064	34.314	1.00 31.90	BBBB
ATOM	6899	0	GLN			-15.931	96.143	35.295	1.00 31.78	BBBB
ATOM	6900	N	PHE		412	-17.986	95.967	34.407	1.00 30.20	BBBB BBBB
ATOM	6901	CA	PHE			-18.637	96.072	35.703	1.00 27.49	BBBB
ATOM	6902	CB	PHE			-19.734	97.129	35.609	1.00 26.56 1.00 25.65	BBBB
ATOM	6903	CG	PHE			-19.304	98.388	34.890 33.502	1.00 25.68	BBBB
MOTA	6904	CD1				-19.124 -19.140	98.393 99.577	35.578	1.00 23.59	BBBB
ATOM	6905	CD2 CE1	PHE		412	-19.140	99.555	32.820	1.00 21.68	BBBB
ATOM	6906		PHE		412		100.740	34.898	1.00 23.64	BBBB
ATOM ATOM	6907 6908	CZ	PHE		412	-18.654		33.513	1.00 23.24	BBBB
ATOM	6909	C	PHE			-19.197	94.839	36.382	1.00 26.54	BBBB
ATOM	6910	0	PHE			-19.963	94.073	35.797	1.00 26.59	BBBB
ATOM	6911	N	SER			-18.813	94.670	37.644	1.00 24.18	BBBB
ATOM	6912	CA	SER		413	-19.284	93.560	38.453	1.00 21.81	BBBB
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ATOM	6914	0G	SER		413	-17.697	94.278	40.106	1.00 20.68	BBBB
ATOM	6915	C			413	-20.513	94.050	39.199	1.00 21.83	BBBB
ATOM	6916	Ô			413	-21.353	93.260	39.630	1.00 22.48	BBBB
ATOM	6917	N			414	-20.616	95.367	39.342	1.00 21.74	BBBB
ATOM	6918	CA	LEU	В	414	-21.759	95.965	40.017	1.00 21.22	BBBB
MOTA	6919	CB	LEU	В	414	-21.405	96.276	41.478	1.00 22.05	BBBB
ATOM	6920	CG	LEU	В	414	-22.495		42.378	1.00 23.27	BBBB
MOTA	6921	CD1	LEU	В	414	-23.836		42.200	1.00 23.70	BBBB
MOTA	6922	CD2	LEU	В	414	-22.021		43.795	1.00 23.49	BBBB
MOTA	6923	С	LEU	В	414	-22.272		39.312	1.00 19.78	BBBB
MOTA	6924	0			414	-21.642		39.333	1.00 19.51	BBBB
ATOM	6925	N			415	-23.440		38.702	1.00 18.02	BBBB
ATOM	6926	CA			415	-24.067		37.979	1.00 16.50	BBBB
ATOM	6927	CB			415	-24.152		36.505	1.00 14.98	BBBB
ATOM	6928	С			415	-25.456		38.519	1.00 16.86	BBBB
MOTA	6929	0			415	-26.345		38.341	1.00 19.21 1.00 16.28	BBBB
MOTA	6930	N			416	-25.657		39.170 39.715	1.00 10.20	BBBB
MOTA	6931	CA			416	-26.972		41.273		BBBB
MOTA	6932	CB			416		100.024	41.773	1.00 14.58	BBBB
ATOM	6933				416			41.773	1.00 14.50	BBBB
ATOM	6934				416	-26.787	101.248	39.105	1.00 19.27	BBBB
MOTA	6935	C	VAL				102.283	39.626	1.00 21.90	BBBB
ATOM	6936 6937	N N			416 417		101.223	38.005	1.00 20.39	BBBB
ATOM ATOM	6938	CA			417		102.444	37.286	1.00 20.14	BBBB
ATOM	6939	CB			417		102.306	35.802	1.00 19.44	BBBB
ATOM	6940				417		103.423		-1-00-21.04	BBBB
ATOM	6941				417	-26.468	102.298	35.699	1.00 18.28	BBBB
ATOM	6942	С			417	-29.874	102.904	37.319	1.00 19.80	BBBB
MOTA	6943	0	VAI	, в	417		102.106	37.359	1.00 19.28	BBBB
ATOM	6944	N	SEF	В	418		104.222	37.299	1.00 20.46	BBBB
ATOM	6945	CA	SEF	B	418		104.919	37.275	1.00 19.96	BBBB
ATOM	6946	CB			418		105.152	35.846	1.00 17.96	BBBB
ATOM	6947	OG			418		103.933	35.313	1.00 19.23	BBBB
ATOM	6948	C			418		5 104.348	37.996	1.00 22.29	BBBB
MOTA	6949	0			418		5 103.938	37.354	1.00 21.22 1.00 24.67	BBBB BBBB
MOTA	6950	N			419		3 104.363	39.323		BBBB
MOTA	6951	CA			419		5 103.864	40.103 41.011	1.00 20.33	BBBB
MOTA	6952	CB			419		102.707	40.442	1.00 30.43	BBBB
MOTA	6953	CG			419		1 101.330 9 101.119	39.052	1.00 30.17	BBBB
MOTA	6954				3 419 3 419		3 101.215	40.387	1.00 29.26	BBBB
MOTA	6955				3 419		7 104.985	40.958		BBBB
ATOM	6956 6957	0			3 419	~33.45	1 105.872	41.396		BBBB
ATOM ATOM	6958	N			3 420	-35.49	3 104.964	41.191		BBBB
ATOM	6959	CA			3 420		3 105.994	42.028		BBBB
ATOM	6960	CB			3 420		9 106.184	41.686		BBBB
ATOM	6961	CG			3 420		1 107.386			BBBB
ATOM	6962				3 420	-37.13	1 108.396	40.843		BBBB
ATOM	6963				3 420		3 107.287			BBBB
ATOM	6964	C			3 420		4 105.542		1.00 35.05	BBBB
ATOM	6965	Ö			3 420		2 105.650			BBBB
ATOM	6966	N			3 421	-34.74	8 105.048	43.803		BBBB
ATOM	6967	CA			3 421	-34.45	8 104.536	45.137		BBBB
MOTA	6968	CB			3 421		7 103.181			BBBB
ATOM	6969		IL:	E	3 421		2 103.205			BBBB
ATOM	6970	CG1	LIL	E I	3 421	-34.60	2 102.070	45.498	1.00 30.80	BBBB

ATOM	6971	CD1	ILE	В	421	-36.	087	102.311	45.167	1.00 3	31.14	BBBB
ATOM	6972	С	ILE	В	421	-33.	727	105.528	46.045	1.00 3	34.58	BBBB
MOTA	6973	0	ILE					106.454	45.554	1.00 3		BBBB
ATOM	6974	N	THR					105.344	47.363	1.00 3		BBBB
ATOM	6975	CA	THR					106.244	48.340	1.00 3		BBBB BBBB
ATOM	6976 6977	CB OG1	THR THR					106.372 106.870	49.619 49.300	1.00 3		BBBB
ATOM ATOM	6978		THR					107.331	50.583	1.00 3		BBBB
ATOM	6979	C	THR					105.821	48.790	1.00 3		BBBB
ATOM	6980	Ō	THR					106.461	48.462	1.00 3	36.37	BBBB
ATOM	6981	N	SER	В	423	-31.	767	104.747	49.570	1.00 3		BBBB
MOTA	6982	CA	SER					104.203	50.109	1.00 3		BBBB
MOTA	6983	CB	SER					103.977	51.621	1.00 3		BBBB
MOTA	6984	OG	SER					102.927	52.103	1.00 3		BBBB BBBB
ATOM ATOM	6985 6986	С О	SER SER					102.887	49.416 49.061	1.00 3		BBBB
ATOM	6987	N	LEU					102.131	49.226	1.00 3		BBBB
ATOM	6988	CA	LEU					101.359	48.581	1.00 3		BBBB
ATOM	6989	CB	LEU					101.264	48.457	1.00 2	28.98	BBBB
MOTA	6990	CG	LEU	В	424	-26.	337	102.154	47.384	1.00 2	26.36	BBBB
MOTA	6991	CD1	LEU	В	424			101.764	47.125	1.00 2		BBBB
ATOM	6992		LEU					102.005	46.117	1.00 2		BBBB
ATOM	6993	C	LEU					100.165	49.358	1.00		BBBB
ATOM	6994	O O	LEU			-29.		99.439 99.965	48.845 50.587	1.00		BBBB BBBB
ATOM ATOM	6995 6996	N CA	GLY GLY			-28. -29.		98.859	51.398	1.00 2		BBBB
ATOM	6997	C	GLY			-28.		97.563	51.402	1.00		BBBB
ATOM	6998	o	GLY			-28.		96.533	51.886	1.00		BBBB
ATOM	6999	N	LEU			-27.		97.615	50.834	1.00		BBBB
ATOM	7000	CA	LEU	В	426	-26.	214	96.467	50.793	1.00	24.10	BBBB
MOTA	7001	CB	LEU	В	426	-25.	214	96.615	49.643	1.00	22.15	BBBB
ATOM	7002	CG	LEU	В	426	-25.	701	96.332	48.218	1.00		BBBB
ATOM	7003		LEU			-27.		96.977	47.954	1.00		BBBB
ATOM	7004		FEU			-24.		96.825	47.255	1.00		BBBB
ATOM	7005	C	LEU			-25.		96.492	52.122	1.00		BBBB BBBB
ATOM	7006	0	LEU ARG		426	-24. -26.		96.784 96.210	52.190 53.187	1.00	25.10	BBBB
ATOM ATOM	7007 7008	N CA	ARG		427	-25.		96.208	54.534	1.00		BBBB
ATOM	7009	CB	ARG		427	-26.		95.748	55.529	1.00		BBBB
ATOM	7010	CG	ARG		427	-27.		96.856	56.085		24.43	BBBB
ATOM	7011	CD			427	-28.	384	96.328	57.195	1.00	25.22	BBBB
ATOM	7012	NE	ARG	В	427	-29.	347	95.356	56.703		28.26	BBBB
MOTA	7013	CZ			427	-30.		95.679	55.938		29.76	BBBB
MOTA	7014		ARG				570		55.583		28.11	BBBB
ATOM	7015		ARG			-31		94.738	55.547		28.79 28.00	BBBB BBBB
ATOM ATOM	7016 7017	С 0	ARG		427 427		. 455 . 392		54.692 55.127		29.83	BBBB
ATOM	7017	N			428		. 625	94.059	54.326		28.21	BBBB
ATOM	7019	CA			428		. 583		54.440		28.21	BBBB
ATOM	7020	CB			428		258		54.732		27.27	BBBB
ATOM	7021	OG	SER	В	428	-25	. 554	91.778	54.174		25.95	BBBB
ATOM	7022	С	SER	В	428	-22	. 604	92.885	53.276	1.00	29.94	BBBB
MOTA	7023	0			428		. 897		53.227		31.84	BBBB
ATOM	7024	N			429		. 543		52.345		30.44	BBBB
ATOM	7025	CA			429		. 614		51.232		31.85	BBBB BBBB
ATOM ATOM	7026	CB CG			429 429		.949 .111		50.109 48.827		33.37 35.05	BBBB
ATOM	7027 7028		LEU				.329		48.218		34.13	BBBB
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ATOM	7234	С	LYS			-12.81			1.00 37.23	
ATOM	7235	0	LYS		455	-12.44			1.00 37.65	
ATOM ATOM	7236 7237	N CA	LEU			-13.88 -14.65			1.00 40.83	
ATOM	7238	CB	LEU		456	-16.01		_	1.00 41.03	
ATOM	7239	CG	LEU		456	-17.02			1.00 42.71	
ATOM	7240	CD1			456	-18.22			1::00-43.97	BBBB
ATOM	7241	CD2	LEU	В	456	-17.45	8 96.03	2 50.830	1.00 43.20	
ATOM	7242	С	LEU		456	-13.92			1.00 42.10	
MOTA	7243	0	LEU			-14.17			1.00 43.20	
ATOM	7244	N			457	-13.01			1.00 42.09	
ATOM ATOM	7245 7246	CA CB			457 457	-12.25 -11.65			1.00 41.18	
MOTA	7247	CG			457	-12.68			1.00 42.68	
ATOM	7248		PHE			-13.96			1.00 43.30	
ATOM	7249		PHE			-12.36	4 99.10	3 44.984	1.00 41.97	BBBB
MOTA	7250		PHE			-14.90			1.00 42.03	
MOTA	7251		PHE			-13.30			1.00 43.23	
ATOM	7252	CZ			457	-14.57			1.00 43.01	
ATOM	7253 7254	С 0			457 457	-11.15 -10.79				
ATOM ATOM	7255	И			458	-10.64			1.00 43.71	
ATOM	7256	CA			458	-9.61			1.00 44.83	
ATOM	7257	C			458	-8.89			1.00 46.53	
ATOM	7258	ō			458	-8.43			1.00 46.79	
ATOM	7259	И			459	-8.80				
ATOM	7260	CA			459	-8.13			1.00 47.72	
ATOM	7261	CB			459	-9.14				
MOTA	7262		THR			-9.51 -0.51				
ATOM	7263 7264				459 459	-8.55 -7.38				
ATOM ATOM	7265	C 0			459	-7.61				
ATOM	7266	И.			460	-6.47				
ATOM	7267				460	-5.69				
MOTA	7268	СВ			460	-4.4			1.00 51.85	
MOTA	7269	OG			460	-4.76				
MOTA	7270	С	SER	B	460	-6.4	75 96.22	8 39.630	1.00 50.41	L BBBB

ATOM	7271	0	SER	В	460	-6.93	24	95.806	38.562	1.00	52.20	BBBB
ATOM	7272	N			461	-6.63		97.489	40.027		48.50	BBBB
ATOM	7273	CA			461	-7.33		98.437	39.181		45.73	BBBB
ATOM	7274	C.			461	-8.77		98.736	39.548		43.89	BBBB
ATOM	7275											
		0			461	-9.41		99.594	38.935		43.99	BBBB
ATOM	7276	N			462	-9.30		98.030	40.533		40.89	BBBB
MOTA	7277	CA	GLN	В	462	-10.67	13	98.274	40.956	1.00	38.78	BBBB
MOTA	7278	CB	GLN	В	462	-10.93	34	97.548	42.271	1.00	39.35	BBBB
ATOM	7279	CG	GLN	В	462	-9.69	95	97.364	43.142	0.01	39.36	BBBB
MOTA	7280	CD	GLN	В	462	-9.00	9	98.670	43.488		39.51	BBBB
ATOM	7281	OE1	GLN		462	-9.58		99.535	44.144		39.49	BBBB
ATOM	7282		GLN		462	-7.76		98.819	43.047		39.49	BBBB
ATOM	7283	C	GLN		462	-10.92		99.772				
									41.111		37.17	BBBB
ATOM	7284	0	GLN		462			100.450	41.847		35.20	BBBB
ATOM	7285	N	LYS		463			100.277	40.391		36.69	BBBB
ATOM	7286	CA	LYS	В	463	-12.27	78	101.692	40.426	1.00	36.37	BBBB
ATOM	7287	CB	LYS	В	463	-11.78	34	102.402	39.164	1.00	34.77	BBBB
ATOM	7288	CG	LYS	В	463	-12.00	63	103.896	39.137	0.01	34.98	BBBB
MOTA	7289	CD	LYS	В	463	-11.48	38	104.549	37.888	0.01	34.66	BBBB
MOTA	7290	CE			463			104.419	37.836		34.66	BBBB
ATOM	7291	NZ			463			105.059				
									36.619		34.42	BBBB
ATOM	7292	С			463			101.856	40.546		36.89	BBBB
ATOM	7293	0			463			100.999	40.098		37.14	BBBB
ATOM	7294	N	THR		464			102.965	41.151	1.00	37.08	BB <b>BB</b>
ATOM	7295	CA	THR	В	464	-15.63	11	103.257	41.364	1.00	36.95	BBBB
MOTA	7296	CB	THR	В	464	-15.84	48	103.662	42.826	1.00	37.60	BBBB
ATOM	7297	OG1	THR	В	464	-17.03	72	103.090	43.288		38.18	BBBB
ATOM	7298	CG2	THR					105.183	42.963		36.79	BBBB
MOTA	7299	C	THR		464			104.396	40.455		37.30	BBBB
ATOM	7300	o	THR		464			105.209				
									40.039		38.09	BBBB
ATOM	7301	N			465			104.463	40.161		38.22	BBBB
ATOM	7302	CA			465			105.509	39.289		38.36	BBBB
MOTA	7303	CB	LYS	В	465	-18.09	53	104.965	37.857	1.00	39.95	BBBB
MOTA	7304	ÇG	LYS	В	465	-18.03	39	106.033	36.749	1.00	41.88	BBBB
MOTA	7305	CD	LYS	В	465	-18.3	10	105.423	35.371	1.00	43.75	BBBB
ATOM	7306	CE	LYS	В	465	-17.86	61	106.324	34.209	1.00	44.01	BBBB
ATOM	7307	NZ	LYS	В	465			107.552	34.011		46.40	BBBB
ATOM	7308	С			465			106.049	39.780		36.47	BBBB
ATOM	7309	o			465			105.893	39.114		37.08	BBBB
ATOM	7310											
		N			466			106.686	40.943		34.78	BBBB
ATOM	7311	CA			466			107.236	41.482		33.64	BBBB
ATOM	7312	CB			466			107.397	43.010		31.85	BBBB
ATOM	7313				466	-21.5	16	108.292	43.506	1.00	32.53	BBBB
ATOM	7314	CG1	ILE	В	466	-20.4	55	106.028	43.679	1.00	30.71	BBBB
ATOM	7315	CD1	ILE	B	466	 -19.1	71	105.267	43.601	1.00	30.02	BBBB
MOTA	7316	С			466			108.598	40.846		33.54	BBBB
ATOM	7317	ō			466			109.383	40.674		35.53	BBBB
ATOM	7318	N			467			108.881	40.494		31.91	BBBB
ATOM	7319	CA										
					467			110.158	39.862		30.02	BBBB
ATOM	7320	CB			467			110.392	38.605		29.30	BBBB
ATOM	7321				467			109.375			29.16	BBBB
ATOM	7322				467	-21.6	28	111.816	38.074	0.01	29.15	BBBB
MOTA	7323	CD1	ILE	В	467	-21.20	02	112.898	39.046	0.01	28.95	BBBB
ATOM	7324	С	ILE	В	467	-23.7	98	110.250	39.438	1.00	29.92	BBBB
ATOM	7325	0	ILE	В	467	-24.5	32	109.259	39.423	1.00	29.72	BBBB
MOTA	7326	N	SER	В	468	-24.2	20	111.458	39.094		29.03	BBBB
ATOM	7327	CA			468			111.687	38.647		28.85	BBBB
ATOM	7328	CB			468			111.133	37.243		30.42	BBBB
ATOM	7329	OG										
					468			111.748	36.330		32.85	BBBB
ATOM	7330	С			468			111.082	39.558		28.94	BBBB
ATOM	7331	0			468			110.513	39.097		27.78	BBBB
ATOM	7332	N			469	-26.4	10	111.196	40.860	1.00	31.21	BBBB
ATOM	7333	CA	ASN	В	469	-27.3	67	110.698	41.839	1.00	33.27	BBBB
MOTA	7334	CB	ASN	В	469	-26.6	72	109.751	42.819	1.00	36.29	BBBB
MOTA	7335	CG			469			108.462	42.148		38.11	BBBB
ATOM	7336				469			107.659	41.632		37.75	BBBB
ATOM	7337				469			107.655				
ATOM									42.165		37.89	BBBB
	7338	C			469			111.958	42.531		33.93	BBBB
MOTA	7339	0			469			112.992	41.870		35.48	BBBB
ATOM	7340	N			470			111.922	43.821		32.97	BBBB
MOTA	7341	CA	ARG	В	470	-28.7	40	113.144	44.442	1.00	32.69	BBBB
MOTA	7342	CB	ARG	В	470	-29.6	42	112.841	45.636	1.00	31.81	BBBB
ATOM	7343	CG	ARG	В	470			113.054	45.334	1.00	31.29	BBBB
MOTA	7344	CD			470			113.101	46.597		31.41	BBBB
ATOM	7345	NE			470			114.389	47.278		31.56	BBBB
						-1.0	~	234.000			51.50	2220

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ATOM	7346	CZ	ARG	В	470	-32.2	83	114.621	1	48.519	1.00	31.62	BBBB
ATOM	7347	NH1	ARG	В	470			113.657		49.235		31.88	BBBB
ATOM	7348		ARG		470			115.823		49.051		31.24	BBBB BBBB
MOTA	7349	C	ARG		470			114.147 115.196		44.870 45.408		33.35 34.56	BBBB
ATOM	7350 7351	O N	ARG GLY		470 471			113.130		44.638		33.13	BBBB
ATOM ATOM	7351	CA	GLY		471			114.75		44.996		32.68	BBBB
ATOM	7353	C	GLY					115.229		46.438		33.32	BBBB
ATOM	7354	ō	GLY		471	-26.3	51	115.558	8	47.021	1.00	31.72	BBBB
ATOM	7355	N	GLU	В	472			115.28		46.992		34.83	BBBB
ATOM	7356	CA	GLU		472			115.70		48.367		37.16	BBBB
MOTA	7357	CB	GLU		472			115.96		48.551 48.468		39.98 43.83	BBBB BBBB
ATOM	7358	CG	GLU GLU		472 472			114.713 113.84		49.715		45.30	BBBB
ATOM ATOM	7359 7360	CD OE1	GLU		472			114.40		50.831		46.03	BBBB
ATOM	7361	OE2	GLU		472			112.61		49.579	1.00	47.38	BBBB
ATOM	7362	Ç	GLU		472	-24.6	551	116.91	1	48.876		37.33	BBBB
MOTA	7363	0	GLU	В	472			116.77		49.614		37.84	BBBB
MOTA	7364	N	ASN		473			118.09		48.504		37.28	BBBB BBBB
ATOM	7365	CA	ASN		473			119.32		48.930 47.927		37.64 38.44	BBBB
ATOM	7366	CB CG	ASN ASN		473 473	_		120.43		47.979		39.22	BBBB
MOTA MOTA	7367 7368		ASN		473			121.41		46.989		39.07	BBBB
ATOM	7369		ASN		473			120.78		49.143	1.00	42.02	BBBB
ATOM	7370	С	ASN		473			119.20		49.102	1.00	38.22	BBBB
MOTA	7371	0	ASN	В	473	-26.9	910	119.68	6	50.072	_	39.67	BBBB
MOTA	7372	N	SER	В	474			118.53		48.168		38.47	BBBB
MOTA	7373	CA	SER		474			118.42		48.256		37.94 36.70	BBBB BBBB
ATOM	7374	CB	SER		474			118.02 117.88		46.903 46.999		34.47	BBBB
ATOM ATOM	7375 7376	OG C	SER		474 474			117.47	_	49.311		39.01	BBBB
ATOM	7377	0	SER		474			117.79		49.952		39.02	BBBB
ATOM	7378	N	CYS		475			116.32		49.512	1.00	41.21	BBBB
ATOM	7379	CA	CYS	В	475			115.38		50.482		42.39	BBBB
ATOM	7380	С	CYS					115.69		51.952		41.27	BBBB BBBB
ATOM	7381	0	CYS		475			115.33		52.803 50.156		41.24	BBBB
ATOM	7382	CB SG			475 475			113.91 112.80		50.873		50.19	BBBB
ATOM ATOM	7383 7384	N			476			116.36		52.274		40.50	BBBB
ATOM	7385	CA			476			116.69		53.677	1.00	40.26	BBBB
ATOM	7386	CB	LYS	В	476	-25.	831	116.99	95	53.938		39.18	BBBB
ATOM	7387	CG			476			117.96		52.992		40.60	BBBB
MOTA	7388	CD			476			117.98		53.175 54.570		40.35	BBBB BBBB
ATOM	7389	CE NZ			476 ~476			118.42 118.56		54.677		40.02	BBBB
MOTA MOTA	7390 <sup>°</sup> 7391	C	LYS		476			117.88		54.053		40.86	BBBB
ATOM	7392	ō			476			117.96		55.165	1.00	40.18	BBBB
ATOM	7393	N	ALA	₿	477			118.79		53.109		41.02	BBBB
MOTA	7394	CA			477	-29.	248	119.93	38	53.335		41.45	BBBB BBBB
ATOM	7395	CB			477			120.81		52.108 53.629		) 41.47 ) 41.73	BBBB
MOTA	7396	C			477			119.40		54.244		41.69	BBBB
ATOM ATOM	7397 7398	O N			478			118.19		53.175		42.47	BBBB
ATOM	7399	CA			478			117.58		53.419	1.00	44.15	BBBB
ATOM	7400	CB			478			116.81		52.199		44.60	BBBB
MOTA	7401				478			115.71		51.927		46.79	, BBBB
MOTA	7402				478			117.72		50.994		) 44.53 ) 44.74	BBBB BBBB
ATOM	7403	C			478			116.62 115.82		54.593 54.874		43.79	BBBB
ATOM	7404 7405	N			478 479			116.73		55.269		45.65	BBBB
ATOM ATOM	7406	CA			479			115.92		56.435		47.06	BBBB
ATOM	7407	С			479			114.43		56.201		48.12	BBBE
ATOM	7408	0	GLY	E	479			113.70		56.606		48.98	BBBE
MOTA	7409	N			480	-29.	590	113.97	71 	55.550		48.64	BBBB
MOTA	7410	CA			480			112.55		55.286 54.030		) 49.13 ) 50.18	BBBE
ATOM	7411	CB			3 480 3 480			112.15		54.030		52.45	
ATOM ATOM	7412 7413	CG			3 480	-32	480	111.79	91	53.004		54.85	
ATOM	7413				3 480			111.92		52.930	1.00	56.03	BBBB
MOTA	7415				3 480	-31.	783	111.0	41	52.150		54.70	
ATOM	7416	C			3 480	-27.	993	112.1	96	55.116		0 48.48	
ATOM	7417	0			3 480			112.3		54.026		0 47.80 0 47.43	
MOTA	7418	N			3 481			111.7		56.216 56.196		0 47.43	
ATOM ATOM	7419 7420				3 481 3 481			111.3		56.748		0 46.04	
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ATOM	7421	CG1	VAL	В	481	-23.683	112.228	56.150	1.00 45.71	BBBB
ATOM	7422		VAL		481		113.811	56.465	1.00 44.10	BBBB
ATOM	7423		VAL		481		110.185	57.114	1.00 47.82	BBBB
ATOM	7424		VAL				109.665	57.499	1.00 47.93	BBBB
ATOM	7425	N	CYS				109.775	57.492	1.00 48.26	BBBB
ATOM	7426	CA	CYS				108.625	58.361	1.00 49.53	BBBB
ATOM	7427	C.	CYS		482		108.869	59.822	1.00 51.36	BBBB
ATOM ATOM	7428	0	CYS				100.463	60.608	1.00 52.04	BBBB
	7428	CB	CYS				108.155	58.263	1.00 32.04	BBBB
ATOM	7429	SG	CYS				107.640	56.572	1.00 47.63	BBBB
ATOM								60.168	1.00 47.03	BBBB
ATOM	7431	N	HIS				108.385			BBBB
ATOM	7432	CA	HIS				108.524	61.506	1.00 53.18	
ATOM	7433	CB	HIS		483		107.624	61.607	1.00 55.04	BBBB
ATOM	7434	CG	HIS				107.485	62.996	1.00 56.26	BBBB
ATOM	7435		HIS				108.188	63.651	1.00 57.58	BBBB
ATOM	7436		HIS				106.525	63.881	1.00 56.00	BBBB
ATOM	7437		HIS				106.637	65.018	1.00 56.69	BBBB
ATOM	7438		HIS				107.639	64.905	1.00 58.65	BBBB
ATOM	7439	C	HIS				108.273	62.709	1.00 52.96	BBBB
ATOM	7440	0	HIS				107.936	62.557	1.00 51.72	BBBB
MOTA	7441	N	ALA				108.452	63.899	1.00 52.89	BBBB
ATOM	7442	CA	ALA				108.276	65.179	1.00 52.43	BBBB
MOTA	7443	CB	ALA				106.812	65.621	1.00 51.49	BBBB
ATOM	7444	С	ALA				108.696	64.981	1.00 52.65	BBBB
MOTA	7445	0	ALA				109.852	64.690	1.00 52.87	BBBB
MOTA	7446	N	LEU	В	485		107.721	65.131	1.00 52.44	BBBB
MOTA	7447	CA	LEU	В	485	-22.084	107.927	64.933	1.00 52.03	BBBB
ATOM	7448	CB			485	-21.386	108.288	66.246	1.00 51.32	BBBB
MOTA	7449	CG	LEU	В	485	-21.376	107.241	67.365	0.01 51.44	BBBB
ATOM	7450	CD1	LEU	В	485		107.727	68.499	0.01 51.37	BBBB
MOTA	7451	CD2	LEU	В	485	-22.790	106.984	67.863	0.01 51.38	BBBB
MOTA	7452	С	LEU	В	485	-21.632	106.572	64.440	1.00 52.61	BBBB
MOTA	7453	0	LEU	В	485	-22.195	105.545	64.824	1.00 52.20	BBBB
ATOM	7454	N	CYS	В	486	-20.652	106.590	63.548	1.00 52.71	BBBB
MOTA	7455	CA	CYS	В	486	-20.061	105.393	62.989	1.00 53.14	BBBB
MOTA	7456	С	CYS	В	486	-19.073	105.896	61.963	1.00 53.52	BBBB
MOTA	7457	0	CYS	В	486	-18.178	105.185	61.515	1.00 52.97	BBBB
ATOM	7458	CB	CYS	₿	486	-21.136	104.472	62.384	1.00 53.26	BBBB
ATOM	7459	SG	CYS	В	486	-22.126	104.941	60.920	1.00 52.94	BBBB
MOTA	7460	N	SER	В	487	-19.241	107.177	61.664	1.00 54.60	BBBB
MOTA	7461	CA	SER	В	487	-18.427	107.937	60.728	1.00 56.06	BBBB
MOTA	7462	CB	SER	В	487	-17.615	108.993	61.501	1.00 55.71	BBBB
ATOM	7463	OG	SER	В	487	-18.457	109.847	62.254	1.00 54.15	BBBB
MOTA	7464	С	SER	В	487	-17.513	107.145	59.778	1.00 56.64	BBBB
MOTA	7465	0	SER	В	487	 -17.954	106.732	58.703	- 1.00 -57.44	BBBB
ATOM	7466	N	PRO	В	488	-16.243	106.912	60.161	1.00 56.35	BBBB
ATOM	7467	CD	PRO	В	488		106.776	61.546	1.00 55.86	BBBB
ATOM	7468	CA	PRO	В	488	-15.360	106.165	59.254	1.00 56.84	BBBB
ATOM	7469	CB	PRO	В	488	-14.355	105.525	60.209	1.00 58.03	BBBB
ATOM	7470	CG	PRO	В	488	-15.130	105.434	61.506	1.00 57.02	BBBB
ATOM	7471	C			488		5 105.132	58.426	1.00 57.30	BBBB
MOTA	7472	ō			488		104.419	58.952	1.00 58.97	BBBB
ATOM	7473	N			489		7 105.042	57.138	1.00 56.79	BBBB
ATOM	7474	CA			489		3 104.105	56.276	1.00 55.78	BBBB
MOTA	7475	CB			489		3 102.666	56.747	1.00 57.96	BBBB
ATOM	7476	CG			489		102.028	56.308	1.00 60.38	BBBB
ATOM	7477	CD			489		5 102.323	57.238	1.00 60.38	
ATOM	7478				489		1 103.510	57.565	1.00 61.19	
ATOM	7479				489		3 101.366	57.628	1.00 59.85	
ATOM	7480	C			489		5 104.460	56.332	1.00 54.41	
ATOM	7481	Ö			489		2 104.294	57.358	1.00 53.83	
ATOM	7482	N			490		3 104.951	55.210	1.00 53.41	
ATOM	7483	CA			490		3 105.378	55.090	1.00 50.95	
ATOM	7484	CA			490		9 104.646	55.730	1.00 48.30	
ATOM	7484	0			490		0 104.040	56.819	1.00 47.22	
								55.039	1.00 47.22	
ATOM	7486	N			491		0 104.652		1.00 46.34	
ATOM	7487	CA			491		7 104.009	55.562 54.471	1.00 45.23	
MOTA	7488	С			491		9 103.641	54.471		
MOTA	7489	0			491		8 104.512	53.800	1.00 46.17	
ATOM	7490	CB			491		6 104.944	56.539	1.00 47.21	
ATOM	7491	SG			491		2 106.650		1.00 45.92	•
ATOM	7492	N			492		6 102.354	54.310	1.00 44.16	
MOTA	7493	CA			492		6 101.916		1.00 43.38	
ATOM	7494	CB			492		4 100.386		1.00 42.95	
ATOM	7495	CG	TRE	. E	3 492	-24.29	5 99.755	53.029	1.00 42.68	BBBB

ATOM	7496	CD2	TRP	В	492	-2	3.550	99.684	51.806	1.00	43.22	BBBB
ATOM	7497	CE2	TRP			-2	2.308	99.088	52.108	1.00	42.67	BBBB
ATOM	7498	CE3	TRP	В	492	-2	3.811	100.066	50.483	1.00	43.57	BBBB
ATOM	7499	CD1	TRP	В	492	-2	3.504	99.213	53.989	1.00	42.84	BBBB
ATOM	7500	NE1	TRP	В	492	-2	2.305	98.811	53.447		43.12	BBBB
ATOM	7501	CZ2	TRP	В	492	-2.	1.326	98.867	51.138	1.00	42.52	BBBB
ATOM	7502	CZ3	TRP	В	492	-2	2.830	99.845	49.516	1.00	43.61	BBBB
ATOM	7503	CH2	TRP	В	492	-2.	1.606	99.250	49.852	1.00	43.04	BBBB
ATOM	7504	С	TRP	В	492	-2	6.953	102.482	53.468	1.00	43.18	BBBB
ATOM	7505	0	TRP	В	492	-2	7.894	102.031	52.819	1.00	43.84	BBBB
ATOM	7506	N	GLY	В	493	-2	7.090	103.473	54.349	1.00	43.20	BBBB
ATOM	7507	CA	GLY	В	493	-2	8.400	104.066	54.591	1.00	42.29	BBBB
MOTA	7508	C	GLY	В	493	-2	8.531	105.018	55.775	1.00	40.66	BBBB
ATOM	7509	0	GLY	В	493	-2	7.545	105.364	56.422	1.00	40.09	BBBB
MOTA	7510	N	PRO	В	494	-2	9.762	105.457	56.077	1.00	39.63	BBBB
ATOM	7511	CD	PRO	В	494	-3	0.940	105.212	55.221		39.96	BBBB
MOTA	7512	CA	PRO	В	494	-3	0.095	106.379	57.170	1.00	38.96	BBBB
ATOM	7513	CB	PRO	В	494	-3	1.406	106.994	56.694	1.00	38.39	BBBB
ATOM	7514	CG	PRO	В	494	-3	2.074	105.832	56.022	1.00	39.31	BBBB
ATOM	7515	С	PRO	В	494	<del>-</del> 3	0.212	105.761	58.575	1.00	38.58	BBBB
ATOM	7516	0	PRO	В	494	-2	9.689	106.322	59.543	1.00	38.75	BBBB
ATOM	7517	N	GLU	В	495	-3	0.920	104.630	58.676	1.00	36.66	BBBB
ATOM	7518	CA	GLU	В	495	-3	1.107	103.910	59.932	1.00	32.17	BBBB
ATOM	7519	CB	GLU	В	495	-3	1.865	102.583	59.661	1.00	29.47	BBBB
MOTA	7520	CG	GLU	В	495	-3	3.413	102.706	59.398	1.00	24.02	BBBB
ATOM	7521	CD	GLU	В	495	-3	4.130	101.349	59.125	1.00	23.08	BBBB
ATOM	7522	OE1	GLU	В	495	-3	5.381	101.263	59.055	1.00	19.65	BBBB
ATOM	7523	OE2	GLU	В	495	-3	3.433	100.348	58.965	1.00	21.80	BBBB
ATOM	7524	С	GLU	В	495	-2	9.678	103.680	60.474	1.00	32.90	BBBB
ATOM	7525	0	GLU		495	-2	8.705	103.775	59.714	1.00	32.12	BBBB
ATOM	7526	N	PRO	В	496	-2	9.523	103.411	61.792	1.00	34.05	BBBB
MOTA	7527	CD	PRO	В	496	-3	0.564	103.450	62.834	1.00	33.52	BBBB
ATOM	7528	CA	PRO	В	496	-2	8.199	103.187	62.406	1.00	33.78	BBBB
ATOM	7529	CB	PRO	В	496	-2	8.476	103.366	63.894	1.00	31.11	BBBB
MOTA	7530	CG	PRO	В	496	-2	9.841	102.859	64.018	1.00	32.88	BBBB
MOTA	7531	С	PRO	В	496	-2	7.451	101.881	62.107	1.00	34.21	BBBB
ATOM	7532	0	PRO	В	496	-2	6.215	101.880	62.059	1.00	34.46	BBBB
ATOM	7533	N	ARG	В	497	-2	8.173	100.778	61.902	1.00	33.76	BBBB
ATOM	7534	CA	ARG	В	497	-2	7.496	99.526	61.594	1.00	33.80	BBBB
ATOM	7535	CB	ARG	В	497	-2	8.363	98.313	61.978	1.00	34.79	BBBB
ATOM	7536	CG	ARG	В	497	-2	9.565	98.000	61.100	1.00	34.41	BBBB
ATOM	7537	CD	ARG	В	497	-2	9.388	96.639	60.420	1.00	33.97	BBBB
MOTA	7538	NE	ARG	В	497	-3	0.654	96.076	59.948	1.00	36.21	BBBB
ATOM	7539	CZ	ARG	В	497		1.467	96.660	59.066		37.08	BBBB
ATOM	7540	NH1	ARG	·B-	497	3	1.154	97.840	58.537	1.00	36.24	BBBB
MOTA	7541	NH2	ARG	В	497		2.607		58.722		35.97	BBBB
MOTA	7542	С	ARG	В	497	-2	7.084	99.463	60.124		33.72	BBBB
MOTA	7543	0	ARG			_	6.471		59.680		33.27	BBBB
ATOM	7544	N	ASP	В	498			100.496	59.369		35.22	BBBB
MOTA	7545	CA	ASP	В	498			100.562	57.970		37.84	BBBB
MOTA	7546	CB	ASP					101.539	57.179		37.31	BBBB
MOTA	7547	CG	ASP					101.160	57.188		39.15	BBBB
MOTA	7548		ASP				9.692		57.424		40.35	BBBB
ATOM	7549	OD2	ASP					102.048	56.942		38.15	BBBB
ATOM	7550	C	ASP	В	498			101.103	58.019		40.69	BBBB
ATOM	7551	0	ASP					101.373	56.990		42.07	BBBB
MOTA	75 <b>5</b> 2	N			499			101.287	59.231		42.50	BBBB
ATOM	7553	CA	CYS	В	499			101.803	59.399		45.37	BBBB
MOTA	7554	С			499			100.664	59.065		45.63	BBBB
MOTA	7555	0	CYS	В	499			99.510	59.003		45.46	BBBB
ATOM	7556	CB	CYS	В	499			102.267	60.844		48.00	BBBB
ATOM	7557	SG			499			104.015	61.277		50.94	BBBB
ATOM	7558	N	VAL	В	500			100.974	58.844		46.05	BBBB
ATOM	7559	CA			500		0.563		58.522		47.49	BBBB
MOTA	7560	CB			500			100.483	57.617		46.09	BBBB
MOTA	7561		VAL					100.938	56.287		44.08	BBBB
MOTA	7562		VAL					101.631	58.303		45.72	BBBB
MOTA	7563	С			500		9.960		59.781		49.30	BBBB
ATOM	7564	0			500		8.714		59.935		50.61	BBBB
ATOM	7565	OXT	VAL				20.745		60.609		49.61	BBBB
ATOM	7566	CB	SER		3		10.468		30.883		68.63	CCCC
ATOM	7567	OG	SER		3		10.453		32.244		68.70	CCCC
MOTA	7568	С	SER		. 3		38.079		30.472		68.34	cccc
ATOM	7569	0	SER				37.487		30.194		67.22	CCCC
ATOM	7570	N	SER	С	3	3	39.989	29.476	30.121	1.00	68.62	. CCCC

7.004	7571	<b>~</b>	CED C	2	20 542	28.055	30.040	1.00 68.76	CCCC
MOTA			SER C	3	39.542				
ATOM	7572	N	HIS C	4	37.523	28.871	31.161	1.00 67.97	CCCC
ATOM	7573	CA	HIS C	4	36.116	28.884	31.605	1.00 68.08	CCCC
	7574		HIS C	4	35.602	27.460	31.902	1.00 69.34	CCCC
ATOM								1.00 70.44	CCCC
ATOM	7575		HIS C	4	34.321	27.127	31.188		
ATOM	7576	CD2	HIS C	4	33.073	26.886	31.657	1.00 70.59	CCCC
ATOM	7577	ND1	HIS C	4	34.224	27.077	29.813	1.00 70.15	CCCC
							29.467	1.00 69.83	cccc
ATOM	7578	CEI	HIS C	4	32.973	26.827			
MOTA	7579	NE2	HIS C	4	32.254	26.708	30.568	1.00 70.27	CCCC
ATOM	7580		HIS C	4	35.790	29.810	32.794	1.00 66.97	CCCC
							32.603	1.00 66.52	CCCC
MOTA	7581	0	HIS C	4	35.451	30.981			
ATOM	7582	N	PHE C	5	35.877	29.293	34.016	1.00 66.06	CCCC
ATOM	7583	CA	PHE C	5	35.574	30.109	35.192	1.00 64.18	CCCC
						29.588	35.875	1.00 64.16	CCCC
ATOM	7584	CB	PHE C	5	34.305				
ATOM	7585	CG	PHE C	5	33.052	29.767	35.060	1.00 64.16	CCCC
ATOM	7586	CD1	PHE C	5	32.599	28.758	34.217	1.00 63.85	CCCC
						30.952	35.132	1.00 63.49	CCCC
ATOM	7587		PHE C	5	32.325				
MOTA	7588	CE1	PHE C	5	31.434	28.928	33.459	1.00 63.49	CCCC
MOTA	7589	CE2	PHE C	5	31.167	31.128	34.381	1.00 62.44	CCCC
				5	30.721	30.114	33.543	1.00 62.75	CCCC
ATOM	7590	CZ	PHE C						
ATOM	7591	С	PHE C	5	36.706	30.184	36.224	1.00 62.95	cccc
MOTA	7592	0	PHE C	5	37.847	29.818	35.948	1.00 62.27	CCCC
					36.374	30.676	37.413	1.00 61.97	CCCC
MOTA	7593	N	ASN C	6					
MOTA	7594	CA	ASN C	6	37.333	30.795	38.502	1.00 61.39	CCCC
ATOM	7595	CB	ASN C	6	38.446	31.761	38.143	1.00 62.39	CCCC
					39.768	31.063	37.997	1.00 63.81	CCCC
ATOM	7596	CG	ASN C	6					
ATOM	7597	OD1	ASN C	6	40.753	31.659	37.577	1.00 66.31	CCCC
ATOM	7598	ND2	ASN C	6	39.800	29.782	38.351	1.00 63.97	CCCC
					36.689	31.218	39.802	1.00 60.24	CCCC
ATOM	7599	C	ASN C	6					
ATOM	7600	0	ASN C	6	35.568	31.698	39.817	1.00 59.53	CCCC
MOTA	7601	N	ASP C	7	37.427	31.058	40.891	1.00 59.13	CCCC
				7	36.926	31.355	42.225	1.00 58.64	CCCC
MOTA	7602	CA	ASP C						
MOTA	7603	CB	ASP C	7	37.801	30.634	43.242	1.00 60.94	CCCC
ATOM	7604	CG	ASP C	7	38.281	29.278	42.744	1.00 63.70	CCCC
			ASP C	7	37.450	28.351	42.612	1.00 65.36	CCCC
MOTA	7605								CCCC
MOTA	7606	OD2	ASP C	7	39.496	29.142	42.482	1.00 65.10	
MOTA	7607	С	ASP C	7	36.834	32.824	42.622	1.00 57.40	CCCC
ATOM	7608	Ō	ASP C	7	37.698	33.625	42.267	1.00 57.24	CCCC
								1.00 55.14	CCCC
AŢOM	7609	N	CYS C	8	35.774	33.174	43.355		
ATOM	7610	CA	CYS C	8	35.605	34.539	43.851	1.00 52.22	CCCC
ATOM	7611	С	CYS C	8	36.187	34.346	45.230	1.00 50.80	CCCC
							45.841	1.00 50.27	CCCC
ATOM	7612	0	CYS C	8	35.965	33.313			
MOTA	7613	CB	CYS C	8	34.113	34.940	43.960	1.00 51.28	CCCC
MOTA	7614	SG	CYS C	8	33.038	33.852	42.986	1.00 49.51	CCCC
						35.299		1.00 50.41	CCCC
MOTA	7615	N		9	36.984				
MOTA	7616	CD	PRO C	9	37.318	36.653	45.246	1.00 50.06	CCCC
ATOM	7617	CA	PRO C	9	37.515	35.065	47.066	1.00 50.37	CCCC
		CB	PRO C	9	38.395	36.279	47.299	1.00 50.17	CCCC
ATOM	7618								CCCC
ATOM	7619	CG	PRO C	9	37.663			1.00 50.61	
MOTA	7620	С	PRO C	9	36.339	34.995	48.040	1.00 51.03	CCCC
ATOM	7621	0	PRO C	9	35.255	35.508	47.751	1.00 52.45	CCCC
									CCCC
ATOM	7622	N	ALA C	10	36.548				
MOTA	7623	CA	ALA C	10	35.500	34.202	50.186	1.00 48.72	CCCC
MOTA	7624	СВ	ALA C	10	35.954	33.184	51.231	1.00 49.38	CCCC
									CCCC
ATOM	7625	C	ALA C	10	35.096				
ATOM	7626	0	ALA C	10	34.941	36.555	50.220		CCCC
ATOM	7627	N	PHE C	15	28.959	35.713	47.968	1.00 28.09	CCCC
				15	28.106			1.00 27.48	CCCC
MOTA	7628	CA	PHE C						CCCC
ATOM	7629	CB	PHE C	15	28.737				
ATOM	7630	CG	PHE C	15	28.169	38.274	45.288	1.00 24.38	CCCC
	7631		L PHE C	15	28.261		45.943	0.01 24.35	CCCC
ATOM									CCCC
ATOM	7632		2 PHE C	15	27.541				
MOTA	7633	CE:	1 PHE C	15	27.737	40.657	45.372	0.01 24.19	CCCC
ATOM	7634		2 PHE C	15	27.013		43.467	0.01 24.19	CCCC
									CCCC
MOTA	7635			15	27.111				
ATOM	7636	С	PHE C	15	26.760	35.970	47.056		CCCC
ATOM	7637		PHE C	15	25.702	36.583	47.162	1.00 30.03	CCCC
						_			CCCC
ATOM	7638		CYS C	16	26.808				
MOTA	7639	CA	CYS C	16	25.601	33.932	46.536		CCCC
ATOM	7640		CYS C	16	25.038	33.298	47.779	1.00 32.56	CCCC
									CCCC
MOTA	7641		CYS C	16	25.545				
MOTA	7642	CB	CYS C	16	25.882	2 32.870	45.491		cccc
ATOM	7643			16	26.845		44.123	1.00 38.31	CCCC
				17	23.965				CCCC
MOTA	7644		PHE C					1 00 31 04	CCCC
ATOM	7645	CA	PHE C	17	23.299	33.395	49.452	1.00 31.04	CCCC

7 most	7646	CB	PHE C	17	22.052	34.217	49.688	1.00 31.14	CCCC
ATOM						35.689	49.754	1.00 31.68	CCCC
MOTA	7647	CG	PHE C	17	22.313				CCCC
ATOM	7648		PHE C	17 .	22.958	36.244	50.855	1.00 30.48	
ATOM	7649	CD2	PHE C	17	21.920	36.526	48.705	1.00 31.89	CCCC
ATOM	7650		PHE C	17	23.209	37.612	50.915	1.00 31.85	CCCC
			PHE C	17	22.167	37.899	48.753	1.00 31.39	CCCC
ATOM	7651							1.00 32.41	CCCC
ATOM	7652	CZ	PHE C	17	22.812	38.443	49.860		
ATOM	7653	C	PHE C	17	22.944	31.921	49.316	1.00 31.44	cccc
ATOM	7654	0	PHE C	17	23.409	31.108	50.096	1.00 33.08	CCCC
ATOM	7655	N	HIS C	18	22.134	31.562	48.328	1.00 31.83	CCCC
				18	21.749	30.157	48.156	1.00 31.99	CCCC
ATOM	7656	CA	HIS C					1.00 30.55	CCCC
ATOM	7657	CB	HIS C	18	20.241	30.036	48.283		
MOTA	7658	CG	HIS C	18	19.722	30.582	49.569	1.00 30.79	CCCC
ATOM	7659	CD2	HIS C	18	19.125	31.760	49.860	1.00 32.92	CCCC
ATOM	7660		HIS C	18	19.850	29.913	50.764	1.00 31.85	CCCC
						30.653	51.737	1.00 31.95	CCCC
ATOM	7661		HIS C	18	19.352				CCCC
ATOM	7662	NE2	HIS C	18	18.904	31.780	51.215	1.00 33.38	
ATOM	7663	С	HIS C	18	22.233	29.529	46.855	1.00 32.17	CCCC
MOTA	7664	0	HIS C	18	21.456	29.235	45.952	1.00 32.41	CCCC
ATOM	7665	N	GLY C	19	23.538	29.315	46.799	1.00 32.15	CCCC
					24.177	28.747	45.634	1.00 33.69	CCCC
ATOM	7666	CA	GLY C	19					CCCC
ATOM	7667	С	GLY C	19	25.649	29.100	45.722	1.00 34.63	
ATOM	7668	0	GLY C	19	26.039	29.879	46.583	1.00 35.32	CCCC
ATOM	7669	N	THR C	20	26.469	28.552	44.837	1.00 34.37	CCCC
MOTA	7670	CA	THR C	20	27.893	28.828	44.880	1.00 35.44	CCCC
					28.698	27.542	44.536	1.00 36.00	. CCCC
ATOM	7671	CB	THR C	20					CCCC
MOTA	7672	OG1	THR C	20	28.494	27.191	43.164	1.00 36.59	
ATOM	7673	CG2	THR C	20	28.237	26.381	45.388	1.00 34.12	CCCC
ATOM	7674	С	THR C	20	28.285	29.958	43.927	1.00 35.99	CCCC
ATOM	7675	ō	THR C	20	27.778	30.027	42.818	1.00 35.16	CCCC
						30.850	44.369	1.00 37.47	CCCC
ATOM	7676	N	CYS C	21	29.174				CCCC
ATOM	7677	CA	CYS C	21	29.635	31.951	43.521	1.00 39.97	
ATOM	7678	С	CYS C	21	30.714	31.329	42.634	1.00 39.29	CCCC
MOTA	7679	0	CYS C	21	31.274	30.276	42.967	1.00 38.76	CCCC
ATOM	7680	CB	CYS C	21	30.310	33.083	44.327	1.00 42.93	CCCC
					32.092	32.711	44.382	1.00 51.71	cccc
MOTA	7681	SG	CYS C	21				1.00 38.22	CCCC
ATOM	7682	N	ARG C	22	31.007	31.994	41.521		
MOTA	7683	CA	ARG C	22	32.037	31.558	40.586	1.00 38.53	CCCC
ATOM	7684	CB	ARG C	22	31.547	30.451	39.634	1.00 36.28	CCCC
ATOM	7685	CG	ARG C	22	30.524	30.882	38.584	1.00 34.69	CCCC
			ARG C	22	30.235	29.771	37.592	1.00 31.53	CCCC
ATOM	7686	CD					36.915	1.00 30.15	CCCC
MOTA	7687	NE	ARG C	22	28.953	29.941			
ATOM	7688	cz	ARG C	22	28.467	29.085	36.024	1.00 29.47	CCCC
ATOM	7689	NH1	ARG C	22	29.155	28.007	35.702	1.00 30.20	CCCC
MOTA	7690	NH2	ARG C	22	27.290	29.299	35.464	1.00 29.91	CCCC
ATOM	7691	С	ARG C	22	32.417	32.774	39.779	1.00 39.93	CCCC
				22	31.575	33.387	39.128	1.00 40.37	CCCC
ATOM	7692	0	ARG C					1.00 41.89	CCCC
ATOM	7693	N	PHE C	23	33.687	33.137	39.837		
ATOM	7694	CA	PHE C	23	34.157	34.288	39.099	1.00 43.12	CCCC
ATOM	7695	CB	PHE C	23	35.447	34.830	39.682	1.00 44.73	CCCC
ATOM	7696	CG	PHE C	23	35.744	36.231	39.254	1.00 45.88	CCCC
			PHE C		35.140	37.302	39.899	1.00 45.83	CCCC
ATOM	7697					36.479	38.209	1.00 46.79	CCCC
ATOM	7698		PHE C		36.623				CCCC
MOTA	7699		PHE C		35.406	38.591	39.518	1.00 47.09	
MOTA	7700	CE2	PHE C	23	36.899	37.768	37.816	1.00 47.99	CCCC
MOTA	7701	CZ	PHE C	23	36.289	38.830	38.473	1.00 49.21	CCCC
ATOM	7702	C	PHE C		34.418	33.857	37.686	1.00 43.02	CCCC
			PHE C		34.905	32.758	37.446	1.00 43.03	CCCC
MOTA	7703	0						1.00 43.62	CCCC
ATOM	7704	N	TEN C		34.097	34.727	36.743		
MOTA	7705	CA	LEU C	24	34.310	34.394	35.353	1.00 43.72	cccc
ATOM	7706	CB	LEU C	24	32.968	34.208	34.643	1.00 41.82	CCCC
ATOM	7707	CG	LEU C	24	31.888	35.252	34.879	1.00 37.99	CCCC
ATOM	7708		LEU C		31.730	36.100	33.629	1.00 37.86	CCCC
						34.550	35.217	1.00 36.79	CCCC
MOTA	7709		LEU C		30.596				CCCC
ATOM	7710	С	LEU C		35.160	35.436	34.655	1.00 44.55	
ATOM	7711	0	LEU C	24	34.808	36.619	34.577	1.00 43.92	CCCC
ATOM	7712	N	VAL C	25	36.309	34.966	34.182	1.00 45.31	CCCC
ATOM	7713	CA	VAL C		37.269	35.783	33.468	1.00 45.23	CCCC
			VAL		38.403		32.952	1.00 45.40	cccc
ATOM	7714	CB						1.00 45.57	CCCC
ATOM	7715		L VAL C		38.828	33.914	34.048		
ATOM	7716	CG2	2 VAL C	25	37.942	34.132	31.735	1.00 45.48	CCCC
ATOM	7717	С	VAL C	25	36.455		32.303	1.00 45.13	CCCC
ATOM	7718	ō	VAL C		35.396		32.017	1.00 46.74	CCCC
		N	GLN C		36.914	37.341	31.628	1.00 43.53	CCCC
ATOM	7719							1.00 44.15	CCCC
ATOM	7720	CA	GLN C	26	36.139	37.842	30.506	7.00 44.17	5556

ATOM	7721	СВ	GLN (	2	26	35.888	36.705	29.517	1.00 4	14.93	C	CCC
ATOM	7722	CG	GLN (		26	35.304	37.119	28.186	1.00			CCC
ATOM	7723	CD	GLN (		26	35.303	35.972	27.191	1.00 4			CCC
ATOM	7724 7725		GLN (		26 26	36.337 34.144	35.348 35.693	26.947 26.612	1.00 4			CCC
ATOM ATOM	7726	NE2 C	GLN (		26 26	34.144	38.366	31.047	1.00			CCC
ATOM	7727	0	GLN (		26	33.844	37.628	31.132	1.00			CCC
ATOM	7728	N	GLU (		27	34.808	39.652	31.386	1.00			CCC
ATOM	7729	CA	GLU (	2 2	27	33.672	40.365	31.974	1.00	12.33	C	CCC
ATOM	7730	CB	GLU (		27	32.418	39.492	32.026	1.00			CCC
ATOM	7731	CG	GLU (		27	31.565	39.550	30.779	1.00			CCC
ATOM	7732 7733	CD OF1	GLU (		27 27	30.817 31.279	40.857 41.750	30.657 29.919	1.00			CCC
ATOM ATOM	7734		GLU (		27 27	29.760	40.992	31.308	1.00			CCC
ATOM	7735	C	GLU (		27	34.140	40.697	33.391	1.00			CCC
ATOM	7736	0	GLU (	C :	27	33.778	41.727	33.973	1.00	42.25	C	CCC
MOTA	7737	N	ASP (		28	34.970	39.806	33.922	1.00			CCC
ATOM	7738	CA	ASP (		28	35.546	39.959	35.239	1.00			CCC
ATOM ATOM	7739 7740	CB CG	ASP (		28 28	36.771 37.676	40.868 40.712	35.160 36.353	1.00			CCC
ATOM	7741		ASP		28	37.490	41.416	37.373	1.00			CCC
ATOM	7742		ASP		28	38.571	39.850	36.274	1.00			CCC
MOTA	7743	С	ASP		28	34.561	40.506	36.255	1.00	42.76	С	CCC
MOTA	7744	0	ASP		28	34.576	41.690	36.581	1.00			CCC
MOTA	7745	N	LYS		29	33.698	39.627	36.744	1.00			CCC
ATOM	7746	CA	LYS		29	32.692	39.975	37.735	1.00			CCC
ATOM ATOM	7747 7748	CB CG	LYS		29 29	31.422 31.547	40.518 41.804	37.077 36.289	1.00 1.00			CCC:
ATOM	7749	CD	LYS		29	30.199	42.100	35.634	1.00			CCC
ATOM	7750	CE	LYS		29	30.248	43.248	34.620	1.00			CCC
MOTA	7751	NZ	LYS	С	29	30.293	44.615	35.231	1.00	54.01	С	CCC
MOTA	7752	С	LYS		29	32.336	38.670	38.417		41.89		CCC
ATOM	7753	0	LYS		29	32.592	37.593	37.882		43.03		CCC
ATOM ATOM	7754 7755	N CD	PRO PRO		30 30	31.744 31.661	38.744 39.928	39.611 40.474		40.51 39.36		CCC
ATOM	7756	CA	PRO		30	31.355	37.535	40.341		40.04		CCC
ATOM	7757	CB	PRO		30	31.237	38.018	41.779	1.00			CCC
ATOM	7758	CG	PRO	С	30	31.999	39.341	41.787		40.65		CCC
ATOM	7759	C	PRO		30	30.009	37.045	39.800		40.09		CCC
MOTA	7760	0	PRO		30	29.214	37.836	39.290		39.78 39.84		CCC
ATOM ATOM	7761 7762	N CA	ALA ALA		31 31	29.751 28.501	35.747 35.180	39.913 39.423		39.59		CCC
ATOM	7763	CB	ALA		31	28.703	34.607	38.025		39.53		CCC
MOTA	7764	C	ALA	C	31	28.000	34.093	40.357	1.00	39.39	C	CCC
ATOM	7765	0	ALA	C.	31	28.749	33.581	41.182	-1:00	38.33		CCC
ATOM	7766	N	CYS		32	26.729	33.737	40.220		38.58		CCCC
MOTA	7767 7768	CA		С	32	26.159	32.699	41.062 40.301		38.54 38.10		CCC
MOTA MOTA	7769	C	CYS	_	32 32	25.702 25.576	31.470 31.484	39.083		39.61		ccc
ATOM	7770	СВ	CYS		32	24.973	33.244	41.852		39.23		CCC
MOTA	7771	SG	CYS		32	25.445	34.531	43.035		39.81		ccc
MOTA	7772	N	VAL		33	25.476	30.398	41.046		37.16		ccc
ATOM	7773	CA	VAL		33	24.982	29.153	40.502		36.74		CCCC
ATOM ATOM	7774 7775	CB CG1	VAL VAL		33 33	26.085 25.630	28.166 27.251	40.179 39.052		37.91 38.04		CCC
ATOM	7776		VAL		33	27.354	28.899	39.821		40.98		CCCC
ATOM	7777	C	VAL		33	24.192	28.622	41.672		36.99		CCCC
ATOM	7778	0	VAL	С	33	24.714	27.881	42.505	1.00	35.68	C	CCCC
MOTA	7779	N	CYS		34	22.932	29.050	41.724		37.63		CCCC
MOTA	7780	CA	CYS		34	21.982	28.706	42.772		37.29		CCCC
ATOM ATOM	7781 7782	С 0	CYS CYS		34 34	21.754 21.891	27.214 26.420	42.964 42.028		37.92 38.26		
MOTA	7783	CB	CYS		34	20.632	29.381	42.495		36.45		CCCC
ATOM	7784	SG	CYS		34	20.697	31.151	42.056		34.53		cccc
ATOM	7785	N	HIS		35	21.414	26.848	44.198	1.00	37.72		CCCC
ATOM	7786	CA	HIS		35	21.127	25.465	44.553		37.55		CCCC
MOTA	7787	CB	HIS		35	21.179	25.274	46.070		38.60		CCCC
ATOM ATOM	7788 7789	CG	HIS		35 35	22.533	25.492	46.660		40.49		
ATOM ATOM	7790		HIS HIS		35 35	23.740 22.752	24.971 26.334	46.338 47.728		42.51		CCCC
ATOM	7791		HIS		35	24.035	26.321	48.042		42.66		CCCC
MOTA	7792		HIS		35	24.657	25.501	47.213		43.94		cccc
ATOM	7793	С	HIS		35	19.714	25.224	44.067		36.66		CCCC
ATOM	7794	0	HIS		35	19.023	26.164	43.679		37.55		CCCC
ATOM	7795	N	SER	C	36	19.275	23.976	44.086	1.00	35.16	(	CCCC

	77.06	C17	CEB C		36	17.932	23.688	43.632	1.00 34.25	CCCC
ATOM	7796	CA	SER C		36 36	17.632	22.189	43.753	1.00 35.91	CCCC
ATOM	7797	CB	SER C		36 36	16.478	21.832	43.006	1.00 37.74	CCCC
ATOM	7798	OG	SER C		36 36		24.502	44.460	1.00 32.49	CCCC
MOTA	7799	C	SER C		36	16.946	24.773	45.638	1.00 32.77	CCCC
ATOM	7800	0	SER C		36	17.171	24.773	43.821	1.00 31.05	CCCC
MOTA	7801	N_	GLY C		37	15.865		44.503	1.00 30.28	CCCC
ATOM	7802	CA	GLY C		3 <b>7</b>	14.849	25.686		1.00 29.12	CCCC
ATOM	7803	C	GLY (		37	15.137	27.160	44.710	1.00 29.78	CCCC
ATOM	7804	0	GLY C		37	14.430	27.816	45.475	1.00 26.51	CCCC
MOTA	7805	N	TYR C		38	16.156	27.696	44.050	1.00 25.27	CCCC
MOTA	7806	CA	TYR C		38	16.460	29.105	44.225	1.00 23.27	CCCC
MOTA	7807	CB	TYR (		38	17.636	29.270	45.178	1.00 25.03	CCCC
MOTA	7808	CG	TYR (		38	17.217	29.186	46.625	1.00 25.69	CCCC
MOTA	7809		TYR (		38	16.941	27.962	47.223	1.00 24.56	CCCC
ATOM	7810		TYR (		38	16.536	27.895	48.545	1.00 23.62	CCCC
ATOM	7811		TYR (		38	17.071	30.337	47.395		CCCC
ATOM	7812	CE2	TYR (		38	16.666	30.272	48.707	1.00 21.16	cccc
MOTA	7813	CZ	TYR (		38	16.403	29.057	49.269	1.00 22.85	cccc
ATOM	7814	OH	TYR (		38	15.986	28.997	50.561	1.00 28.03	CCCC
MOTA	7815	С	TYR	C	38	16.706	29.909	42.958	1.00 24.47	CCCC
ATOM	7816	0	TYR (	С	38	17.149	29.377	41.943	1.00 23.96	
MOTA	7817	N	VAL	С	39	16.419	31.204	43.035	1.00 23.22	CCCC
ATOM	7818	CA	VAL	С	39	16.587	32.089	41.903	1.00 22.54	CCCC
ATOM	7819	CB	VAL	С	39	15.304	32.173	41.108	1.00 24.28	CCCC
ATOM	7820	CG1	VAL	С	39	15.057	30.858	40.382	1.00 24.52	CCCC
MOTA	7821	CG2	VAL	С	39	14.163	32.489	42.046	1.00 24.09	CCCC
MOTA	7822	С	VAL	С	39	16.937	33.471	42.372	1.00 21.71	CCCC
ATOM	7823	0	VAL	С	39	16.728	33.784	43.524	1.00 19.43	CCCC
ATOM	7824	N	$\mathtt{GLY}$	С	40	17.453	34.293	41.458	1.00 22.88	CCCC
ATOM	7825	CA	GLY	С	40	17.848	35.662	41.777	1.00 23.65	CCCC
MOTA	7826	C	GLY	С	40	19.269	35.969	41.334	1.00 23.36	CCCC
ATOM	7827	0	GLY	С	40	20.012	35.059	40.994	1.00 23.97	CCCC
ATOM	7828	N	ALA	С	41	19.666	37.235	41.331	1.00 23.51	CCCC
ATOM	7829	CA	ALA	С	41	21.028	37.568	40.918	1.00 24.55	CCCC
ATOM	7830	CB	ALA	С	41	21.191	39.045	40.777	1.00 22.88	CCCC
ATOM	7831	C	ALA	С	41	22.040	37.039	41.918	1.00 26.52	cccc
ATOM	7832	0	ALA		41	23.110	36.583	41.538	1.00 26.10	cccc
ATOM	7833	N	ARG		42	21.700	37.120	43.202	1.00 28.04	CCCC
ATOM	7834	CA	ARG		42	22.570	36.626	44.264	1.00 29.38	CCCC
ATOM	7835	CB	ARG		42	22.719	37.683	45.354	1.00 30.22	CCCC
ATOM	7836	CG	ARG		42	23.261	38.991	44.863	1.00 32.25	CCCC
ATOM	7837	CD	ARG		42	23.716	39.837	46.012	1.00 34.01	CCCC
ATOM	7838	NE	ARG		42	24.760	39.152	46.756	1.00 36.59	CCCC
ATOM	7839	CZ	ARG		42	25.345	39.637	47.846	1.00 39.60	CCCC
ATOM	7840		ARG			24.996	40.823	48.336	1.00 39.34	CCCC
ATOM	7841		2 ARG		42	26.282	38.928	48.455	1.00 41.46	CCCC
ATOM	7842	C	ARG		42	21.950	35.358	44.859	1.00 30.75	CCCC
ATOM	7843	ō			42	22.253	34.960	45.992	1.00 29.00	CCCC
ATOM	7844	N	CYS		.43	21.071	34.734	44.078	1.00 31.59	CCCC
ATOM	7845	CA	CYS		43	20.388	33.533	44.519	1.00 31.67	CCCC
ATOM	7846	C	CYS		43	19.691	33.851	45.845	1.00 30.47	CCCC
MOTA	7847	Ö	CYS		43	19.516	32.989	46.688	1.00 30.87	CCCC
ATOM	7848	СВ	CYS		43	21.415	32.406	44.693	1.00 33.67	CCCC
ATOM	7849	SG	CYS		43	22.245	31.900	43.142	1.00 35.97	CCCC
	7850	N	GLU		44	19.274	35.100	46.006	1.00 28.62	CCCC
MOTA	7851	CA			44	18.644	35.539	47.236	1.00 27.65	CCCC
ATOM	7852	CB	GLU		44	18.649	37.067	47.315	1.00 27.94	CCCC
ATOM	7853	CG			44	17.654	37.782	46.416	1.00 27.12	CCCC
ATOM					44	18.223	38.152		1.00 29.28	CCCC
MOTA	7854	CD			44	17.608	39.001	44.375	1.00 30.08	CCCC
ATOM	7855		1 GLU			19.274	37.609		1.00 29.15	CCCC
ATOM	7856		2 GLU		44	17.233	35.050			CCCC
MOTA	7857	C	GLU		44	-	34.827		1.00 26.92	CCCC
MOTA	7858	0	GLU		44	16.876	_			CCCC
ATOM	7859	N	HIS		45	16.426				CCCC
ATOM	7860	CA			45	15.048	34.452			CCCC
ATOM	7861	CB			45	14.154	35.232			CCCC
ATOM	7862	CG			45	14.143			<b></b>	CCCC
ATOM	7863		2 HIS		45	14.292				CCCC
ATOM	7864		1 HIS		45	13.977	37.639			CCCC
MOTA	7865		1 HIS		45	14.028				CCCC
MOTA	7866		2 HIS		45	14.217				CCCC
MOTA	7867	C	HIS		45	14.730				CCCC
MOTA	7868	0	HIS		.45	15.292	32.238			cccc
MOTA	7869		ALA		46	13.815				cccc
MOTA	7870	CA	ALA	. С	46	13.369	31.174	47.368	1.00 27.00	2000

MOTA	7871	CB	ALA	С	46	12.573	30.862	48.617	1.00 26.72	CCCC
ATOM	7872	С	ALA	С	46	12.483	31.113	46.146	1.00 29.11	CCCC
ATOM	7873	0	ALA		46	11.818	32.088	45.796	1.00 28.88	CCCC
ATOM	7874	N	ASP		47	12.497	29.971	45.482	1.00 31.39	CCCC
ATOM	7875	CA	ASP		47	11.698	29.788	44.297	1.00 31.85	CCCC
ATOM	7876	СВ	ASP		47	12.383	28.824	43.349	1.00 34.50	CCCC
ATOM	7877	CG	ASP		47	11.510	28.474	42.189	1.00 40.36	CCCC
ATOM	7878		ASP		47	11.914	27.640	41.348	1.00 43.44	CCCC
ATOM	7879		ASP		47	10.403	29.050	42.121	1.00 42.78	CCCC
ATOM	7880	C	ASP		47	10.343	29.242	44.686	1.00 31.94	CCCC
ATOM	7881	Ö	ASP		47	10.051	28.079	44.438	1.00 31.72	CCCC
ATOM	7882	N	LEU		48	9.530	30.099	45.300	1.00 33.00	CCCC
ATOM	7883.	CA	LEU		48	8.172	29.782	45.763	1.00 33.00	cccc
ATOM	7884	CB	LEU		48	7.446	31.070	46.134	1.00 31.94	cccc
	7885	CG	LEU						1.00 30.16	CCCC
ATOM					48	8.121	32.029	47.111	1.00 28.75	CCCC
ATOM	7886		LEU		48	7.561	33.427	46.906		
ATOM	7887		LEU		48	7.923	31.536	48.543	1.00 27.60	CCCC
ATOM	7888	C	LEU		48	7.332	29.044	44.726	1.00 33.31	CCCC
ATOM	7889	0	LEU		48	6.376	28.351	45.075	1.00 31.57	cccc
ATOM	7890	N	LEU		49	7.674	29.226	43.448	1.00 36.09	CCCC
ATOM	7891	CA	LEU		49	6.960	28.557	42.354	1.00 37.20	CCCC
MOTA	7892	CB	LEU		49	7.205	29.265	41.017	1.00 36.37	cccc
ATOM	7893	CG	LEU		49	6.324	30.471	40.690	1.00 37.51	CCCC
MOTA	7894		LEU		49	6.568	30.873	39.235	1.00 36.96	CCCC
MOTA	7895	CD2	LEU	С	49	4.843	30.119	40.905	1.00 37.77	CCCC
MOTA	7896	С	LEU		49	7.360	27.092	42.226	1.00 37.37	CCCC
ATOM	7897	0	LEU	С	49	7.446	26.553	41.127	1.00 36.40	, cccc
ATOM	7898	N	ALA		50	7.611	26.463	43.368	1.00 38.35	CCCC
ATOM	7899	CA	ALA	С	50	7.986	25.059	43.407	1.00 38.78	CCCC
ATOM	7900	CB	ALA	С	50	9.505	24.911	43.383	1.00 37.49	CCCC
ATOM	7901	С	ALA	С	50	7.417	24.441	44.673	1.00 39.15	CCCC
MOTA	7902	0	ALA	С	50	7.352	25.135	45.718	1.00 37.51	CCCC
ATOM	7903	OXT	ALA	С	50	7.048	23.254	44.591	1.00 41.05	CCCC
ATOM	7904	CB	ALA	D	4	-34.635	102.058	2.839	1.00 61.86	DDDD
ATOM	7905	С	ALA		4	-36.531	101.517	4.378	1.00 62.84	DDDD
ATOM	7906	0	ALA		4		100.445	4.700	1.00 62.68	DDDD
ATOM	7907	N	ALA		4		103.671	3.206	1.00 63.00	DDDD
ATOM	7908	CA	ALA		4		102.228	3.094	1.00 62.57	DDDD
ATOM	7909	N	PHE		5		102.121	5.105	1.00 63.32	DDDD
ATOM	7910	CA	PHE		5		101.563	6.365	1.00 64.01	DDDD
ATOM	7911	CB	PHE		5		102.157	7.550	1.00 63.94	DDDD
ATOM	7912	CG	PHE		5		102.552	7.216	1.00 62.91	DDDD
ATOM	7913		PHE		5		103.778	6.624	1.00 62.30	DDDD
ATOM	7914		PHE		5		101.676	7.444	1.00 62.24	DDDD
ATOM	7915		PHE		5	-34.720		6.260		DDDD
									1.00 62.37	2222
MOTA	7916		PHE		5		102.016	7.081		DDDD
ATOM	7917	CZ	PHE		5		103.245	6.486	1.00 61.97	DDDD
ATOM	7918	C	PHE		5		101.865	6.555	1.00 64.50	DDDD
ATOM	7919	0	PHE		5		103.023	6.647	1.00 65.23	DDDD
ATOM	7920	N	ASN		6		100.836	6.619	1.00 65.73	DDDD
ATOM	7921	CA	ASN		6		101.068	6.820	1.00 67.62	DDDD
MOTA	7922	CB	ASN		6		100.103	5.968	1.00 68.77	DDDD
MOTA	7923	CG	ASN		6		100.624	5.683	1.00 69.99	DDDD
MOTA	7924		ASN		6		101.150	6.569	1.00 70.33	DDDD
MOTA	7925		ASN		6		100.468	4.440	1.00 70.38	DDDD
MOTA	7926	С	ASN		6		100.891	8.300	1.00 68.31	DDDD
MOTA	7927	0	ASN	D	6	-41.369	100.200	9.042	1.00 69.04	DDDD
MOTA	7928	N	ASE	D	7	-43.167	101.506	8.725	1.00 68.38	DDDD
MOTA	7929	CA	ASE	D	7	-43.607	101.419	10.117	1.00 68.66	DDDD
MOTA	7930	CB	ASE	D	7	-44.863	102.265	10.305	1.00 70.42	DDDD
MOTA	7931	CG	ASE	D	7	-44.844	103.524	9.447	1.00 72.69	DDDD
ATOM	7932	OD1	ASE	D	7	-43.782	104.185	9.372	1.00 73.23	DDDD
MOTA	7933		ASE		7		103.854	8.849	1.00 73.84	DDDD
ATOM	7934	C	ASE		7			10.546	1.00 67.69	DDDD
ATOM	7935	ō	ASE		7			10.073	1.00 67.62	DDDD
ATOM	7936	N	CYS		8	-43.048		11.456	1.00 66.50	DDDD
ATOM	7937	CA	CYS		8			11.952	1.00 65.12	DDDD
ATOM	7938	C	CYS		8			12.428	1.00 65.12	DDDD
ATOM	7939	o	CYS		8			12.945	1.00 66.13	DDDD
ATOM	7940	CB	CYS		8			13.138	1.00 63.66	DDDD
ATOM	7941	SG	CYS		8			12.933	1.00 62.59	DDDD
ATOM	7941	N N	PRO		9			12.239	1.00 62.35	DDDD
	7943	CD						11.175	1.00 65.79	DDDD
ATOM ATOM	7943		PRO		9			12.648	1.00 65.79	DDDD
		CA	PRO		9			11.490	1.00 65.24	DDDD
atom	7945	CB	PRO	עי	9	-46.528	24.323	11.450	1.00 00.00	טטטט

ATOM	7946	CG	PRO D	9	-45.182	94.383	11.142	1.00 65.58	DDDD
ATOM	7947	C	PRO D	9	-45.887	95.077	13.937	1.00 64.73	DDDD
ATOM	7948	ō	PRO D	9	-44.818	94.480	14.049	1.00 65.69	DDDD
ATOM	7949	N	ASP D	10	-46.783	95.075	14.916	1.00 64.02	DDDD
ATOM	7950	CA	ASP D	10	-46.477	94.357	16.154	1.00 63.35	DDDD
ATOM	7951	CB	ASP D	10	-46.805	95.227	17.374	1.00 63.52	DDDD
ATOM	7952	CG	ASP D	10	-45.791	96.346	17.587	1.00 63.84	DDDD
ATOM	7953		ASP D	10	-44.598	96.019	17.786	1.00 63.84	DDDD
	7954		ASP D	10	-46.182	97.540	17.556	1.00 62.22	DDDD
ATOM	7955		ASP D	10	-47.166	93.010	16.278	1.00 62.32	DDDD
MOTA	7956	C		10	-46.501	91.988	16.434	1.00 61.69	DDDD
MOTA		0	ASP D		-44.083	96.155	21.358	1.00 40.28	DDDD
ATOM	7957	N	ALA D	14				1.00 41.63	DDDD
ATOM	7958	CA	ALA D	14	-43.042	96.118	22.371	1.00 42.81	DDDD
ATOM	7959	CB	ALA D	14	-43.189	94.860	23.211	1.00 42.81	DDDD
ATOM	7960	С	ALA D		-41.643	96.173	21.762		
ATOM	7961	0	ALA D	14	-41.107	97.251	21.494	1.00 42.01	DDDD
ATOM	7962	И	PHE D	15	-41.065	94.995	21.555	1.00 41.96	DDDD
ATOM	7963	CA	PHE D	15	-39.724	94.823	20.987	1.00 42.51	DDDD
MOTA	7964	CB	PHE D		-39.780	94.825	19.457	1.00 40.47	DDDD
MOTA	7965	CG	PHE D		-38.576	94.194	18.824	1.00 40.12	DDDD
ATOM	7966	CD1	PHE D	15	-38.268	92.861	19.076	1.00 38.87	DDDD
MOTA	7967	CD2	PHE D	15	-37.730	94.931	18.008	1.00 39.81	DDDD
MOTA	7968	CE1	PHE D	15	-37.138	92.273	18.530	1.00 38.70	DDDD
MOTA	7969	CE2	PHE D	15	-36.593	94.346	17.454	1.00 39.66	DDDD
ATOM	7970	cz	PHE D	15	-36.298	93.015	17.718	1.00 38.40	DDDD
ATOM	7971	С	PHE D	15	-38.629	95.799	21.454	1.00 42.76	DDDD
ATOM	7972	0	PHE D	15	-37.955	95.545	22.449	1.00 41.63	DDDD
ATOM	7973	N	CYS D	16	-38.439	96.897	20.727	1.00 43.11	DDDD
ATOM	7974	CA	CYS D	16	-37.422	97.882	21.092	1.00 43.09	DDDD
MOTA	7975	С	CYS D	16	-37.726	98.509	22.433	1.00 43.17	DDDD
ATOM	7976	0	CYS D	16	-38.712	99.223	22.579	1.00 45.16	DDDD
ATOM	7977	CB	CYS D	16	-37.358	98.988	20.053	1.00 42.41	DDDD
ATOM	7978	SG	CYS D	16	-37.161	98.348	18.378	1.00 43.90	DDDD
ATOM	7979	N	PHE D	17	-36.872	98.264	23.412	1.00 42.34	DDDD
MOTA	7980	CA	PHE D	17	-37.103	98.821	24.728	1.00 41.62	DDDD
ATOM	7981	CB	PHE D	17	-36.285	98.051	25.775	1.00 41.58	DDDD
ATOM	7982	CG	PHE D	17	-36.744	96.619	25.987	1.00 40.76	- DDDD
MOTA	7983	CD1	PHE D	17	-38.086	96.329	26.243	1.00 39.81	DDDD
ATOM	7984	CD2	PHE D	17	-35.832	95.564	25.936	1.00 40.59	DDDD
ATOM	7985	CE1	PHE D	17	-38.512	95.016	26.440	1.00 38.28	DDDD
ATOM	7986	CE2	PHE D	17	-36.252	94.244	26.134	1.00 39.10	DDDD
ATOM	7987	CZ	PHE D	17	-37.592	93.974	26.384	1.00 38.60	DDDD
MOTA	7988	С	PHE D	17	-36.806	100.318	24.801	1.00 41.40	DDDD
ATOM	7989	0	PHE D	17	-37.700	101.107	25.066	1.00 41.86	DDDD
ATOM	7990	N	HTS D	18		100.713	24.534	1.00 41.60	DDDD
MOTA	7991	CA	HIS E	18	-35.184	102.119	24.618	1.00 42.59	DDDD
MOTA	7992	CB	HIS D	18		102.247	25.544	1.00 42.71	DDDD
MOTA	7993	ÇG	HIS D	18	-34.236	101.740	26.930	1.00 43.56	DDDD
ATOM	7994	CD2	HIS D	18		100.563	27.521	1.00 43.57	DDDD
MOTA	7995	ND1	HIS D	18		102.461	27.865	1.00 42.66	DDDD
ATOM	7996	CE1	HIS D	18	-35.061	101.751	28.972	1.00 42.75	DDDD
MOTA	7997	NE2	HIS D	18	-34.450	100.594	28.790	1.00 43.73	DDDD
ATOM	7998	С	HIS D	18	-34.890	102.784	23.277	1.00 43.84	DDDD
MOTA	7999	0	HIS D	18	-33.864	103.442	23.093	1.00 44.67	DDDD
ATOM	8000	N	GLY I	19	-35.813	102.628	22.343	1.00 44.22	DDDD
MOTA	8001	CA	GLY I	19	-35.634	103.206	21.030	1.00 43.28	DDDD
MOTA	8002	C	GLY [	19	-36.934	103.050	20.289	1.00 43.79	DDDD
ATOM	8003	0	GLY I	19	-37.987	102.953	20.912	1.00 43.84	DDDD
ATOM	8004	N	THR E	20	-36.867	103.003	18.965	1.00 44.66	DDDD
ATOM	8005	CA	THR I	20	-38.066	102.864	18.152	1.00 45.46	DDDD
ATOM	8006	CB	THR I		-38.465	104.226	17.574	1.00 44.39	DDDD
ATOM	8007		THR D		-37.393	104.734	16.775	1.00 41.89	DDDD
ATOM	8008		THR I			105.216	18.703	1.00 43.43	DDDD
ATOM	8009	С	THR I			101.870	17.020	1.00 47.01	DDDD
ATOM	8010	0	THR I			101.798	16.496	1.00 47.29	DDDD
ATOM	8011	N	CYS I			101.106	16.653	1.00 48.39	DDDD
ATOM	8012	CA	CYS I			100.108	15.585	1.00 49.96	DDDD
ATOM	8013	C	CYS I			100.634	14.173	1.00 49.48	DDDD
ATOM	8014	ō	CYS I			101.393	13.938	1.00 49.79	DDDD
ATOM	8015	СВ	CYS I		-39.671		15.842	1.00 52.62	DDDD
ATOM	8016	SG	CYS I		-39.564		14.602	1.00 58.10	DDDD
ATOM	8017	N	ARG I			100.202	13.240	1.00 48.61	DDDD
ATOM	8018	CA	ARG I			100.555		1.00 47.71	DDDD
ATOM	8019	CB	ARG I			101.399	11.404	1.00 46.79	DODO
ATOM	8020	CG	ARG I			100.840	11.927	1.00 46.29	DDDD

ATOM	8021	CD	ARG	D	22	-34.53	9 1	.01.149	11.055	1.00	45.60	1	DDDD
ATOM	8022	NE	ARG		22	-34.30			10.840		44.90		DDDD
ATOM	8023	CZ	ARG		22	-33.10			10.585	1.00	44.97		DDDD
MOTA	8024	NH1	ARG	D	22	-32.03	2 1	02.312	10.527	1.00	42.98		DDDD
ATOM	8025	NH2	ARG	D	22	-32.97	8 1	104.395	10.357	1.00	44.24		DDDD
MOTA	8026	C	ARG	D	22	-38.20	7	99.220	11.101	1.00	47.71		DDDD
MOTA	8027	0	ARG	D	22	-37.90	1	98.194	11.703	1.00	47.94		DDDD
ATOM	8028	N	PHE	D	23	-38.51	2	99.219	9.813		47.84		DDDD
MOTA	8029	CA	PHE		23	-38.45		97.984	9.052		47.77		DDDD
MOTA	8030	CB		D	23	-39.80		97.623	8.448		46.28		DDDD
ATOM	8031	CG	PHE		23	-39.90		96.191	8.005		45.15		DDDD
ATOM	8032		PHE		23	-40.29		95.196	8.899		43.70		DDDD
ATOM	8033		PHE		23	-39.55		95.822	6.708		44.63		DDDD
ATOM	8034		PHE		23	-40.33		93.856	8.510		42.41		DDDD
MOTA	8035		PHE		23	-39.58		94.477	6.310		42.96		DDDD
ATOM	8036 8037	CZ	PHE		23	-39.97° -37.44		93.497 98.159	7.217 7.932		42.08 48.84		DDDD DDDD
ATOM ATOM	8038	С 0	PHE		23 23	-37.79		98.651	6.862		50.27		DDDD
ATOM	8039	N	LEU		24	-36.20		97.786	8.186		49.34		DDDD
ATOM	8040	CA		D	24	-35.17		97.878	7.167		48.95		DDDD
ATOM	8041	CB	LEU		24	-33.89		97.197	7.666		48.24		DDDD
ATOM	8042	CG	LEU		24	-33.28		97.708	8.974		48.39		DDDD
ATOM	8043		LEU		24	-32.13		96.809	9.383		48.28		DDDD
ATOM	8044		LEU		24	-32.81		99.141	8.801		48.29		DDDD
ATOM	8045	C	LEU		24	-35.78		97.078	6.031	1.00	49.23		DDDD
ATOM	8046	0	LEU		24	-36.05	3	95.893	6.199	1.00	49.32		DDDD
ATOM	8047	N	VAL		25	-36.05	3	97.697	4.885	1.00	49.83		DDDD
MOTA	8048	CA	VAL	D	25	-36.67	5	96.921	3.816	1.00	50.80		DDDD
ATOM	8049	CB	VAL	D	25	-37.59	9	97.770	2.922	1.00	51.13		DDDD
ATOM	8050	CG1	VAL	D	25	-38.60	2	96.852	2.244		50.38		DDDD
MOTA	8051	CG2	VAL	D	25	-38.32	21	98.830	3.744	1.00	51.29		DDDD
MOTA	8052	С	VAL	D	25	-35.68	36	96.186	2.924	1.00	50.84		DDDD
MOTA	8053	0	VAL		25	-36.06		95.233	2.239		50.72		DDDD
MOTA	8054	И	GLN		26	-34.43		96.626	2.915		50.88		DDDD
MOTA	8055	CA	GLN		26	-33.41		95.939	2.122		51.87		DDDD
MOTA	8056	CB	GLN		26	-32.01		96.382	2.541		52.86		DDDD
MOTA	8057	CG	GLN		26	-31.93		97.807	3.095		55.11		DDDD
ATOM	8058	CD	GLN		26	-31.21		98.792	2.174		56.21		DDDD
ATOM	8059	OE1			26	-30.06		98.577	1.783		55.67 56.99		DDDD DDDD
ATOM	8060	NE2 C	GLN GLN		26 26	-31.88		99.887 94.468	1.841 2.496		52.24		DDDD
MOTA	8061 8062	0	GLN		26	-33.64 -33.76		93.601	1.628		51.59		DDDD
MOTA MOTA	8063	И	GLU		27	-33.70		94.212	3.805		52.42		DDDD
ATOM	8064	CA	GLU		27	-33.98		92.874	4.344		51.75		DDDD
ATOM	8065	CB	GLU		27	 ~ -33.16			5.609		50.37		DDDD
ATOM	8066	CG	GLU		27	-31.83		91.906	5.389		48.88		DDDD
ATOM	8067	CD	GLU		27	-30.77		92.846	4.844		49.77		DDDD
ATOM	8068	OE1	GLU	D	27	-31.07	76	94.048	4.697	1.00	50.48		DDDD
MOTA	8069	OE2	GLU	D	27	-29.64		92.388	4.565	1.00	49.08		DDDD
ATOM	8070	С	GLU	D	27	-35.45	58	92.813	4.724		51.86		DDDD
MOTA	8071	0	GLU	D	27	-36.16	61	93.824	4.701		51.53		DDDD
ATOM	8072	N	ASP		28	-35.92		91.618	5.068		52.50		DDDD
ATOM	8073	CA	ASP		28	-37.30		91.427	5.492		52.19		DDDD
ATOM	8074	CB	ASP		28	-37.91		90.168	4.851		51.93		DDDD
MOTA	8075	CG	ASP		28	-37.90		90.219	3.336		51.88		DDDD
ATOM	8076		ASP		28	-38.52		91.140	2.764		51.81		DDDD
MOTA	8077		ASP		28	-37.26		89.338	2.718		51.82		DDDD
MOTA	8078	C	ASP		28	-37.20		91.259	7.004		51.14		DDDD DDDD
MOTA	8079	0	ASP		28 29	-37.81		90.362	7.597 7.608		48.84		DDDD
ATOM ATOM	8080	N C7	LYS		29	-36.40 -36.19		92.137 92.127	9.045		46.35		DDDD
ATOM	8081 8082	CA CB	LYS LYS		29	-34.70		91.718	9.320		46.60		DDDD
ATOM	8083	CG	LYS		29	-34.3		91.704	10.794		46.46		DDDD
ATOM	8084	CD	LYS		29	-32.8		91.406	10.984		46.58		DDDD
ATOM	8085	CE	LYS		29	-32.40		90.030	10.451		46.67		DDDD
ATOM	8086	NZ	LYS		29	-33.2		88.948	11.152		46.80		DDDD
ATOM	8087	C	LYS		29	-36.43		93.471	9.712		43.97		DDDD
ATOM	8088	ŏ	LYS		29	-36.1		94.528	9.150		44.60		DDDD
ATOM	8089	N	PRO		30	-36.9		93.445	10.916		41.36		DDDD
ATOM	8090	CD	PRO		30	-37.8		92.349	11.393		39.54		DDDD
ATOM	8091	CA	PRO		30	-37.2		94.677	11.653		38.54		DDDD
ATOM	8092	СВ	PRO		30	-38.6		94.370			37.64		DDDD
ATOM	8093	CG	PRO		30	-38.4		92.940			37.84		DDDD
ATOM	8094	C	PRO	D	30	-36.1		94.905			36.91		DDDD
MOTA	8095	0	PRO	D	30	-35.3	95	93.969	12.971	1.00	36.27		DDDD

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ATOM	8096	N	ALA 1	D	31	-35.9	54	96.142	13.089	1.00	35.67		DDD
ATOM	8097	CA	ALA		31	-34.8		96.476	14.013	1.00	35.77		DDDD
MOTA	8098	CB	ALA		31	-33.5		96.666	13.242	1.00			DDDD
ATOM	8099	С	ALA		31	-35.1		97.734	14.810 14.853	1.00	36.68		ממממ ממממ
ATOM	8100	О И	ALA :		31 32	-36.3 -34.1		98.160 98.332	15.434		36.16		DDDD
ATOM ATOM	8101 8102	CA	CYS		32	-34.1		99.536	16.236		36.62		DDDD
ATOM	8103	C.	CYS		32			100.652	15.984		36.20		DDDD
ATOM	8104	Ō	CYS		32			100.539	15.171	1.00	35.91	E	DDDD
ATOM	8105	CB	CYS	D	32	-34.3	22	99.234	17.739		36.93		DDDD
ATOM	8106	SG	CYS		32	-35.2		97.773	18.330		42.60		DDDD
ATOM	8107	N	VAL		33			101.730	16.726		35.75		מססס מססס
ATOM	8108	CA	VAL		33			102.940 104.071	16.756 <b>1</b> 5.896		35.21 35.72		מממכ
ATOM ATOM	8109 8110	CB CG1	VAL VAL		33 33			104.071	14.503		35.48		DDDD
ATOM	8111		VAL		33			103.912	15.819		37.35		DDDD
ATOM	8112	C	VAL		33			103.300	18.219	1.00	34.62	I	DDDD
ATOM	8113	0	VAL	D	33	-34.0	69	103.732	18.626		34.06		DDDD
ATOM	8114	И	CYS		34			103.084	19.002		34.70		DDDD
ATOM	8115	CA	CYS		34			103.335	20.448	•	33.77		DDDD DDDD
ATOM	8116	C	CYS		34 34			104.804 105.659	20.842		33.43 31.72		מממכ מממכ
ATOM ATOM	8117 8118	O CB	CYS CYS		34			102.688	21.115		33.56		DDDD
ATOM	8119	SG	CYS		34			100.940	20.736		33.50		DDDD
ATOM	8120	N	HIS		35			105.090	21.982	1.00	31.99	I	DDDD
ATOM	8121	CA	HIS	D	35	-32.5	50	106.441	22.490		32.77		DDDD
ATOM	8122	CB	HIS		35			106.560	23.665		34.97		DDDD
MOTA	8123	CG	HIS		35			106.346	23.301		39.32		DDDD
ATOM	8124			D	35			106.023 106.465	22.123 24.212		41.13 43.75		DDDD DDDD
MOTA ATOM	8125 8126		HIS HIS		35 35			106.403	23.611		43.98		DDDD
ATOM	8127		HIS		35			105.953	22.341		44.15		DDDD
ATOM	8128	C	HIS		35			106.678	22.960	1.00	32.22	1	DDDD
ATOM	8129	0	HIS	D	35	-30.4	10	105.727	23.264		32.25		DDDD
ATOM	8130	N	SER		36			107.936	23.018		31.14		DDDD
MOTA	8131	CA	SER		36			108.243	23.464		29.16		DDDD DDDD
ATOM	8132	CB	SER		36 36			109.750 110.097	23.623 23.816		29.95 31.04		מססס מססס
ATOM ATOM	8133 8134	OG C	SER SER		36			107.542	24.797		27.97		DDDD
MOTA	8135	o	SER		36			107.514	25.657		27.13		DDDD
ATOM	8136	N	GLY		37	-27.9	958	106.950	24.951		27.14	i	DDDD
ATOM	8137	CA	GLY	D	37			106.263	26.189		28.35		DDDD
MOTA	8138	C	GLY		37			104.770	26.274		28.35		DDDD
ATOM	8139	0	GLY		37			104.155	27.326 25.188		27.32		DDDD DDDD
ATOM ATOM	8140 8141	N CA	TYR TYR		38			104.174	25.232		27.89		DDDD
ATOM	8142	CB	TYR		38			102.518	25.330		26.58		DDDD
ATOM	8143	CG	TYR		38			102.986	26.653		24.39		DDDD
ATOM	8144	CD1	TYR	D	38	-30.9	986	104.336	26.891	1.00	22.06		DDDD
MOTA	8145		TYR		38			104.786	28.134		20.76		DDDD
ATOM	8146		TYR		38			102.087	27.705		23.77 21.70		DDDD DDDD
ATOM	8147 8148	CE	TYR TYR		38 38			102.530 103.885	28.961 29.167		21.70		DDDD
ATOM ATOM	8149	OH	TYR		38			104.346	30.414		22.54		DDDD
ATOM	8150	C	TYR		38			102.000	24.059		28.60		DDDD
ATOM	8151	0	TYR		38	-27.7	771	102.594	23.016		28.76		DDDD
MOTA	8152	N	VAL		39			100.693	24.254		27.32		DDDD
MOTA	8153	CA	VAL		39	-27.3		99.825	23.256		26.07		DDDD
ATOM	8154	CB	VAL		39	-25.8		99.539	23.577 23.614		25.40 22.22		DDDD DDDD
ATOM	8155 8156		VAL		39 39	-25.		100.832 98.821	24.914		24.10		DDDD
ATOM ATOM	8157	C	VAL		39	-28.0		98.501	23.206		26.30		DDDD
ATOM	8158	ō	VAL		39	-29.0		98.298	23.886	1.00	26.19		DDDD
ATOM	8159	N	GLY		40	-27.	509	97.597	22.387		28.19		DDDD
MOTA	8160	CA	GLY		40	-28.		96.278	22.227		28.49		DDDD
ATOM	8161	C	GLY		40	-28.		96.163	20.963		26.73		DDDD DDDD
MOTA	8162	0	GLY		40	-29.		97.167 94.944	20.419		25.74 25.85		DDDD
ATOM ATOM	8163 8164	N CA	ALA ALA		41 41	-29. -29.		94.944	19.299		25.30		DDDD
ATOM ATOM	8165	CB	ALA		41	-30.		93.300	18.976		23.83		DDDD
ATOM	8166	C	ALA		41	-31.		95.337	19.578	1.00	26.55		DDDD
ATOM	8167	ō	ALA		41	-31.		96.182	18.825		27.74		DDDD
ATOM	8168	N	ARG	D	42	-31.		94.905	20.663		25.08		DDDD
ATOM	8169	CA	ARG		42	-33.		95.421	21.006		24.69		DDDD
atom	8170	СВ	ARG	D	42	-34.	101	94.358	21.737	1.00	25.09		חחקי

MOTA	8171	CG	ARG	D	42	-34.511	93.171	20.885	1.00 25.75	DDDD
ATOM	8172	CD	ARG		42	-35.414	92.230	21.667	1.00 23.97	DDDD
ATOM	8173	NE	ARG		42	-36.649	92.893	22.075	1.00 25.02	DDDD
ATOM	8174	CZ	ARG		42	-37.610	92.322	22.788	1.00 24.10	DDDD
ATOM	8175		ARG		42	-37.499	91.065	23.183	1.00 24.72	DDDD
MOTA	8176		ARG		42	-38.682	93.013	23.115	1.00 23.56	מֿססס
MOTA	8177	С	ARG	D	42	-33.225	96.675	21.872	1.00 26.60	DDDD
MOTA	8178	0	ARG	D	42	-34.244	97.093	22.429	1.00 26.32	DDDD
ATOM	8179	N	CYS	D	43	-32.029	97.261	21.994	1.00 27.93	DDDD
ATOM	8180	CA	CYS	D	43	-31.803	98.483	22.788	1.00 28.44	DDDD
ATOM	8181	С	CYS		43	-32.138		24.272	1.00 28.94	DDDD
ATOM	8182	ō	CYS		43	-32.656		24.902	1.00 29.75	DDDD
ATOM	8183				43			22.229		
		CB	CYS			-32.645			1.00 29.44	DDDD
ATOM	8184	SG	CYS		43		100.163	20.535	1.00 31.89	DDDD
MOTA	8185	N	GLU		44	-31.801		24.836	1.00 28.19	DDDD
ATOM	8186	CA	GLU	D	44	-32.140	96.860	26.215	1.00 27.95	DDDD
ATOM	8187	CB	GLU	D	44	-32.474	<b>95.37</b> 3	26.319	1.00 28.73	DDDD
ATOM	8188	CG	GLU	D	44	-31.318	94.396	26.078	1.00 29.74	DDDD
ATOM	8189	CD	GLU		44	-30.924		24.618	1.00 31.06	DDDD
ATOM	8190		GLU		44	-30.255		24.317	1.00 32.52	DDDD
ATOM	8191		GLU						1.00 32.32	DDDD
					44	-31.256		23.768		
ATOM	8192	C	GLU		44	-31.168		27.332	1.00 29.25	DDDD
ATOM	8193	0	GLU		44	-31.562		28.501	1.00 28.76	DDDD
MOTA	8194	И	HIS	D	45	-29.909	97.504	26.993	1.00 29.73	DDDD
ATOM	8195	CA	HIS	D	45	-28.930	97.871	28.007	1.00 30.64	DDDD
MOTA	8196	CB	HIS	D	45	-27.674	97.036	27.829	1.00 31.73	DDDD
ATOM	8197	CG	HIS	D	45	-27.876	95.590	28.125	1.00 33.35	DDDD
ATOM	8198			D	45	-28.799		28.889	1.00 33.51	DDDD
ATOM	8199			D	45	-27.056		27.617	1.00 34.47	DDDD
ATOM										
	8200		HIS		45	-27.468		28.054	1.00 35.42	DDDD
ATOM	8201		HIS		45	-28.523		28.828	1.00 34.84	DDDD
ATOM	8202	С	HIS		45	-28.545		28.066	1.00 31.24	DDDD
ATOM	8203	0	HIS	D	45	-28.915	100.141	27.216	1.00 31.92	DDDD
MOTA	8204	N	ALA	D	46	-27.790	99.691	29.096	1.00 30.56	DDDD
ATOM	8205	CA	ALA	D	46	-27.355	101.055	29.266	1.00 29.92	DDDD
ATOM	8206	CB	ALA	D	46	-27.648	101.511	30.679	1.00 28.45	DDDD
ATOM	8207	С	ALA		46		101.176	28.965	1.00 30.86	DDDD
ATOM	8208	ō	ALA		46		100.369	29.408	1.00 30.43	DDDD
ATOM	8209	N	ASP		47		100.303	28.181	1.00 32.60	DDDD
ATOM	8210	CA	ASP		47		102.434	27.835	1.00 34.26	DDDD
ATOM	8211	CB	ASP		47		103.631	26.890	1.00 35.61	DDDD
ATOM	8212	CG	ASP		47		103.805	26.282	1.00 38.50	DDDD
MOTA	8213	OD1	ASP	D	47	-21.678	103.493	26.951	1.00 39.62	DDDD
MOTA	8214	OD2	ASP	D	47	-22.599	104.273	25.128	1.00 41.35	DDDD
MOTA	8215	С	ASP	D	47	-23.448	102.776	29.154-	1.00 35.13	DDDD
MOTA	8216	0	ASP	D	47	-23,35	103.954	29.504	1.00 35.85	DDDD
ATOM	8217	N	LEU		48		101.767	29.894	1.00 33.78	DDDD
ATOM	8218	CA	LEU		48		102.043	31.164	1.00 32.70	DDDD
ATOM	8219	CB	LEU		48				1.00 27.98	DDDD
							100.776	31.982		
ATOM	8220	CG	LEU		48	-23.35		32.347	1.00 25.69	DDDD
ATOM	8221		LEU		48	-22.910		33.175	1.00 21.92	DDDD
MOTA	8222	CD2	LEU		48	-24.363	2 100.801	33.096	1.00 22.85	DDDD
MOTA	8223	С	LEU	D	48	-20.96	3 102.649	30.899	1.00 35.66	DDDD
MOTA	8224	0	LEU	D	48	-20.60	3 103.679	31.471	1.00 37.32	DDDD
ATOM	8225	N	LEU	D	49	-20.219	102.011	30.011	1.00 37.42	DDDD
MOTA	8226	CA	LEU		49		3 102.468	29.669		DDDD
ATOM	8227	CB	LEU		49		3 101.538	28.610	1.00 39.24	DDDD
ATOM	8228	CG	LEU		49		3 101.514	28.473	1.00 40.26	DDDD
ATOM	8229									
			LEU		49		101.702	29.842	1.00 39.79	DDDD
ATOM	8230		LEU		49		100.189		1.00 40.91	DDDD
ATOM	8231	С	LEU		49		7 103.920	29.190	1.00 39.11	DDDD
ATOM	8232	0	LEU	D	49	<b>~17</b> .83	5 104.396	28.678	1.00 39.69	DDDD
ATOM	8233	N	ALA	D	50	-19.96	104.619	29.360	1.00 39.14	DDDD
MOTA	8234	CA	ALA	D	50	-20.05	3 106.011	28.970	1.00 40.27	DDDD
ATOM	8235	CB	ALA		50		7 106.175		1.00 39.93	DDDD
ATOM	8236	C	ALA		50		5 106.829		1.00 42.20	
ATOM	8237	0	ALA		50		106.212		1.00 42.82	
ATOM	8238				50				1.00 42.82	
			, ATA				1 108.076			
ATOM	8239	C1			600	3.34			1.00 63.08	
ATOM	8240	Ç2			600	3.36		25.936	1.00 64.76	
ATOM	8241	N2	NAG	Ε	600	4.63	7 24.577	25.409	1.00 64.32	
ATOM	8242	C7	NAG	Ε	600	5.26	0 23.552	25.979	0.01 64.58	EEEE
ATOM	8243	07	NAG	Ε	600	6.02			0.01 65.02	EEEE
ATOM	8244	C8			600	5.00			0.01 65.17	
ATOM	8245	C3			600	2.21			1.00 66.55	
				_						3223

ATOM	8246	03	NAG E 600	2.082	23.048	25.480	1.00 66.72	EEEE
MOTA	8247	C4	NAG E 600	0.859	25.125	25.309	1.00 67.41	EEEE
ATOM	8248	04	NAG E 600	-0.054	24.706	24.261 25.227	1.00 73.16 1.00 66.32	EEEE
ATOM ATOM	8249 8250	C5 O5	NAG E 600 NAG E 600	1.064 2.043	26.643 27.056	26.197	1.00 64.73	EEEE
ATOM	8251	C6	NAG E 600	-0.167	27.497	25.460	1.00 65.26	EEEE
ATOM	8252	06	NAG E 600	-1.234	27.113	24.571	1.00 62.45	EEEE
ATOM	8253	C1	FUC E 601	-2.518	27.413	25.062	1.00 63.59	EEEE
ATOM	8254	C2	FUC E 601	-2.770	26.805	26.466	1.00 63.41	EEEE
ATOM	8255	02	FUC E 601	-2.306	25.465	26.513	1.00 62.93	EEEE
ATOM	8256	C3	FUC E 601	-2.074	27.636	27.547	1.00 63.20 1.00 63.11	EEEE EEEE
ATOM	8257 8258	03 C4	FUC E 601 FUC E 601	-2.364 -2.554	27.114 29.080	28.838 27.435	1.00 63.11	EEEE
ATOM ATOM	8259	04	FUC E 601	-3.960	29.127	27.643	1.00 64.70	EEEE
ATOM	8260	C5	FUC E 601	-2.219	29.623	26.036	1.00 63.14	EEEE
ATOM	8261	05	FUC E 601	-2.843	28.809	25.016	1.00 63.06	EEEE
MOTA	8262	C6	FUC E 601	-2.694	31.050	25.824	1.00 63.04	EEEE
MOTA	8263	C1	NAG E 602	-1.123	23.895	24.624	1.00 77.21	EEEE EEEE
ATOM	8264	C2	NAG E 602 NAG E 602	-2.235 -2.702	23.937 25.296	23.560 23.345	1.00 79.43	EEEE
ATOM ATOM	8265 8266	N2 C7	NAG E 602 NAG E 602	-3.773	25.539	22.588	1.00 81.30	EEEE
ATOM	8267	07	NAG E 602	-3.913	25.080	21.449	1.00 81.39	EEEE
ATOM	8268	C8	NAG E 602	-4.861	26.422	23.178	1.00 81.79	EEEE
ATOM	8269	C3	NAG E 602	-3.385	23.041	24.029	1.00 81.06	EEEE
MOTA	8270	03	NAG E 602	-4.404	22.990	23.040	1.00 82.29	EEEE
ATOM	8271	C4	NAG E 602	-2.878	21.624 20.850	24.314 24.906	1.00 81.70	EEEE · EEEE
ATOM ATOM	8272 8273	04 C5	NAG E 602 NAG E 602	-3.943 -1.662	21.662	25.263	1.00 81.05	EEEE
ATOM	8274	05	NAG E 602	-0.647	22.553	24.752	1.00 78.79	EEEE
ATOM	8275	C6	NAG E 602	-1.003	20.307	25.437	1.00 81.76	EEEE
MOTA	8276	06	NAG E 602	0.120	20.397	26.303	1.00 82.42	EEEE
ATOM	8277	C1	MAN E 603	-4.250	19.671	24.251	1.00 84.43	EEEE
ATOM	8278	C2	MAN E 603	-4.145	18.491	25.216 26.330	1.00 85.42 1.00 86.52	eeee eeee
ATOM ATOM	8279 8280	02 C3	MAN E 603 MAN E 603	-5.011 -4.520	18.690 17.200	24.479	1.00 86.25	EEEE
ATOM	8281	03	MAN E 603	-4.553	16.120	25.402	1.00 87.70	EEEE
ATOM	8282	C4	MAN E 603	-5.888	17.335	23.786	1.00 85.54	EEEE
ATOM	8283	04	MAN E 603	-6.111	16.206	22.950	1.00 84.69	EEEE
MOTA	8284	C5	MAN E 603	-5.943	18.618	22.937	1.00 85.35	EEEE
ATOM	8285	05	MAN E 603	-5.584 -7.317	19.768 18.897	23.738 22.344	1.00 84.36 1.00 85.76	EEEE EEEE
ATOM ATOM	8286 8287	C6 O6	MAN E 603 MAN E 603	-8.254	17.876	22.669	1.00 86.26	EEEE
ATOM	8288	C1	NAG E 620	27.632	55.426	28.414	1.00 69.68	EEEĒ
ATOM	8289	C2	NAG E 620	28.912	54.972	29.133	1.00 71.11	EEEE
MOTA	8290	N2	NAG E-620	29.600	53.991	28.318	1.00 70.40	EEEE
ATOM	8291	C7	NAG E 620	30.928	53.943	28.310	1.00 70.33	EEEE EEEE
ATOM	8292 8293	07 C8	NAG E 620 NAG E 620	31.626 31.581	54.815 52.741	27.789 28.977	1.00 71.08	EEEE
MOTA MOTA	8294	C3	NAG E 620	28.605	54.378	30.511	1.00 72.85	EEEE
ATOM	8295	03	NAG E 620	29.823	54.153	31.213	1.00 73.12	EEEE
ATOM	8296	C4	NAG E 620	27.717	55.332	31.315	1.00 73.73	EEEE
MOTA	8297	04	NAG E 620	27.348	54.734	32.548	1.00 73.23	EEEE
MOTA	8298	C5	NAG E 620	26.467	55.687	30.510	1.00 74.20	eeee eeee
ATOM ATOM	8299 8300	05 C6	NAG E 620 NAG E 620	26.856 25.579	56.295 56.683	29.254 31.258	1.00 72.73	EEEE
ATOM	8301	06	NAG E 620	24.735	57.415	30.340	1.00 79.04	EEEE
ATOM	8302	C1	FUC E 621	25.275	58.672	30.017	1.00 80.24	EEEE
ATOM	8303	C2	FUC E 621	24.642	59.198		1.00 80.63	EEEE
MOTA	8304	02	FUC E 621	24.754	58.219	27.700	1.00 79.45	EEEE
ATOM	8305	C3	FUC E 621	23.169	59.531	28.983 27.798	1.00 81.18	EEEE EEEE
MOTA MOTA	8306 8307	03 C4	FUC E 621 FUC E 621	22.560 23.066	60.028 60.567	30.116	1.00 80.91	EEEE
ATOM	8308	04	FUC E 621	23.639	61.806		1.00 79.97	EEEE
ATOM	8309	C5	FUC E 621	23.779		31.378	1.00 80.47	EEEE
MOTA	8310	05	FUC E 621	25.138	59.634	31.075	1.00 80.31	EEEE
MOTA	8311	C6	FUC E 621	23.871	61.111	32.454	1.00 81.14	EEEE
ATOM	8312	C1	NAG E 650	20.995	47.355	52.975	1.00 39.69	EEEE
MOTA	8313	C2	NAG E 650	21.191	46.736	51.616 51.765	1.00 39.58 1.00 37.17	EEEE
ATOM ATOM	831 <i>4</i> 8315	N2 C7	NAG E 650 NAG E 650	21.896 21.234	45.480 44.328	51.760	1.00 34.64	EEEE
ATOM	8316	07	NAG E 650	20.019	44.242		1.00 32.02	EEEE
ATOM	8317	C8	NAG E 650	22.059	43.082	51.494	1.00 33.58	EEEE
ATOM	8318	C3	NAG E -650	21.994	47.706		1.00 41.62	EEEE
ATOM	8319	03		22.100	47.188		1.00 41.28	EEEE
ATOM	8320	C4	NAG E 650	21.311	49.086	50.732	1.00 44.85	4000

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ATOM	8321	04	NAG E 650	22.194	50.057	50.140	1.00 51.20	EEEE
ATOM	8322	C5	NAG E 650	20.897	49.575	52.129	1.00 42.23	EEEE
ATOM	8323	05	NAG E 650	20.204	48.534	52.848	1.00 40.85	EEEE
ATOM	8324	C6	NAG E 650	19.949	50.764	52.045	1.00 40.87	EEEE
MOTA	8325	06	NAG E 650	18.588	50.357	52.031	1.00 37.93	EEEE
ATOM	8326	C1	NAG E 651	22.092	50.201	48.767	1.00 58.07	EEEE
MOTA	8327	C2	NAG E 651	22.546	51.592	48.362	1.00 60.82	EEEE
ATOM	8328	N2	NAG E 651	21.739	52.586	49.043	1.00 61.05	EEEE
ATOM	8329	C7	NAG E 651	22.132	53.056	50.223	1.00 62.43	EEEE
ATOM	8330	07	NAG E 651	22.490	52.325	51.143	1.00 62.46	EEEE
ATOM	8331	C8	NAG E 651	22.146	54.564	50.413	1.00 63.07	EEEE
ATOM ATOM	8332 8333	C3 O3	NAG E 651 NAG E 651	22.400	51.711 52.966	46.846	1.00 63.52 1.00 64.41	EEEE
ATOM	8334	C4	NAG E 651	22.885 23.167	50.596	46.410 46.124	1.00 64.41	EEEE EEEE
ATOM	8335	04	NAG E 651	22.815	50.640	44.730	1.00 03.17	EEEE
ATOM	8336	C5	NAG E 651	22.803	49.213	46.702	1.00 62.45	EEEE
ATOM	8337	05	NAG E 651	22.928	49.215	48.139	1.00 59.89	EEEE
ATOM	8338	C6	NAG E 651	23.677	48.079	46.194	1.00 61.54	EEEE
ATOM	8339	06	NAG E 651	24.548	48.506	45.158	1.00 61.52	EEEE
ATOM	8340	C1	MAN E 652	23.830	50.878	43.818	1.00 76.95	EEEE
ATOM	8341	C2	MAN E 652	23.311	50.612	42.411	1.00 79.82	EEEE
ATOM	8342	02	MAN E 652	22.190	51.446	42.147	1.00 80.25	EEEE
ATOM	8343	C3	MAN E 652	24.420	50.889	41.395	1.00 81.93	EEEE
ATOM	8344	03	MAN E 652	23.887	50.776	40.059	1.00 86.43	EEEE
ATOM	8345	C4	MAN E 652	24.999	52.290	41.589	1.00 80.44	EEEE
ATOM	8346	04	MAN E 652	26.159	52.427	40.785	1.00 80.06	EEEE
ATOM	8347	C5	MAN E 652	25.364	52.548	43.059	1.00 79.37	EEEE
ATOM	8348	05	MAN E 652	24.243	52.249	43.924	1.00 78.08	EEEE
ATOM	8349	C6	MAN E 652	25.733	53.995	43.289	1.00 78.98	EEEE
ATOM	8350	06	MAN E 652	25.951	54.664	42.055	1.00 79.18	EEEE
ATOM	8351	C1	MAN E 653	24.165	49.604	39.333	1.00 89.37	EEEE
ATOM	8352	C2	MAN E 653	23.547	48.355	39.998	1.00 89.99	EEEE
MOTA	8353	02	MAN E 653	23.284	47.357	39.023	1.00 89.77	EEEE
MOTA MOTA	8354 8355	C3 O3	MAN E 653 MAN E 653	24.435 23.984	47.775 46.469	41.113	1.00 90.42 1.00 90.84	EEEE EEEE
ATOM	8356	C4	MAN E 653	25.915	47.711	40.714	1.00 90.37	EEEE
ATOM	8357	04	MAN E 653	26.697	47.394	41.856	1.00 90.30	EEEE
ATOM	8358	C5	MAN E 653	26.384	49.048	40.139	1.00 90.34	EEEE
ATOM	8359	05	MAN E 653	25.552	49.429	39.028	1.00 90.42	EEEE
ATOM	8360	C6	MAN E 653	27.811	48.988	39.623	1.00 91.14	EEEE
MOTA	8361	06	MAN E 653	27.849	48.711	38.228	1.00 90.99	EEEE
ATOM	8362	C1	NAG E 660	4.986	55.813	65.817	1.00 76.82	EEEE
ATOM	8363	C2	NAG E 660	5.852	54.872	66.680	1.00 79.66	EEEE
MOTA	8364	N2	NAG E 660	6.912	54.279	65.884	1.00 81.51	EEEE
MOTA	8365	C7	NAG E 660	8.183	54.620	66.094	1.00 83.46	EEEE
MOTA	8366	07	NAG E 660	. 8.630	54.907	67.208	1.00 83.00	EEEE
ATOM	8367	C8	NAG E 660	9.100	54.650	64.880	1.00 84.57	EEEE
ATOM	8368	C3	NAG E 660	4.982	53.771	67.293	1.00 81.36	EEEE
MOTA	8369	03	NAG E 660	5.773	52.930	68.125	1.00 81.07	EEEE
ATOM ATOM	8370 8371	C4 O4	NAG E 660 NAG E 660	3.887 3.075	54.443 53.466	68.111 68.791	1.00 80.97 1.00 81.45	EEEE EEEE
ATOM	8372	C5	NAG E 660	3.037	55.336	67.197	1.00 80.01	EEEE
ATOM	8373	05	NAG E 660	3.874	56.345	66.575	1.00 78.08	EEEE
ATOM	8374	C6	NAG E 660	1.935	56.078	67.949	1.00 80.66	EEEE
ATOM	8375	06	NAG E 660	2.382	56.450	69.277	1.00 81.56	EEEE
MOTA	8376	C1	FUC E 661	2.162	57.809	69.529	1.00 83.01	EEEE
ATOM	8377	C2	FUC E 661	1.515	58.025	70.915	1.00 83.27	EEEE
ATOM	8378	02	FUC E 661	0.523	57.034	71.137	1.00 83.08	EEEE
ATOM	8379	СЗ	FUC E 661	2.535	57.975	72.062	1.00 83.42	EEEE
MOTA	8380	03	FUC E 661	1.919	58.429	73.261	1.00 82.46	EEEE
MOTA	8381	C4	FUC E 661	3.755	58.847	71.754	1.00 83.51	EEEE
ATOM	8382	04	FUC E 661	3.377	60.219	71.739	1.00 82.94	EEEE
ATOM	8383	C5	FUC E 661	4.337	58.444	70.395	1.00 83.10	EEEE
MOTA	8384	05	FUC E 661	3.338	58.606	69.364	1.00 83.72	EEEE
ATOM	8385	C6	FUC E 661	5.535	59.285	69.993	1.00 84.09	EEEE
MOTA	8386	C1	NAG E 662	3.409	53.339	70.130	1.00 81.79	EEEE
MOTA	8387	C2	NAG E 662	2.169	53.283	71.016	1.00 82.25	EEEE
ATOM	8388	N2	NAG E 662	1.303	54.416	70.752	1.00 81.79	EEEE
ATOM	8389	C7	NAG E 662 NAG E 662	0.247	54.265	69.955	1.00 82.12 1.00 81.04	EEEE EEEE
ATOM ATOM	8390 8391	07 C8	NAG E 662	0.328	53.787 54.694	68.819 70.504	1.00 81.04	EEEE
ATOM	8391	C3	NAG E 662	-1.107 2.646	53.274	70.504	1.00 82.54	EEEE
ATOM	8393	03	NAG E 662	1.532	53.208	73.351	1.00 83.35	EEEE
ATOM	8394	C4	NAG E 662	3.583	52.070	72.700	1.00 82.98	EEEE
ATOM	8395	04	NAG E 662	4.153	52.155	74.002	1.00 83.11	EEEE
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ATOM	8396	C5	NAG E 662	4.714	52.036	71.640	1.00 82.89	EEEE
ATOM	8397	05	NAG E 662	4.175	52.148	70.302	1.00 82.41	EEEE
MOTA	8398	C6	NAG E 662	5.531	50.760	71.664	1.00 81.82	EEEE
MOTA	8399	06	NAG E 662	5.993	50.428	70.362	1.00 78.25	EEEE
MOTA	8400	C1	NAG F 600	-7.741	106.957	19.564	1.00 55.44	FFFF
MOTA	8401	C2	NAG F 600	-8.036	108.350	20.128	1.00 57.69	FFFF
MOTA	8402	N2	NAG F 600	-9.082	108.998	19.363	1.00 57.74	FFFF
MOTA	8403	C7	NAG F 600	-10.071	109.632	19.985	0.01 57.58	FFFF
MOTA	8404	07	NAG F 600	-11.088		20.377	0.01 58.16	FFFF
ATOM	8405	C8	NAG F 600	-9.910		20.204	0.01 58.35	FFFF
ATOM	8406	C3	NAG F 600	-6.769		20.102	1.00 61.23	FFFF
ATOM	8407	03	NAG F 600	-7.024		20.786	1.00 59.74	FFFF
ATOM	8408	C4	NAG F 600	-5.578 3 -4.354 3		20.768	1.00 64.86 1.00 73.84	FFFF FFFF
ATOM	8409	04	NAG F 600 NAG F 600	-4.354 -5.441		20.467 20.276	1.00 /3.84	FFFF
ATOM ATOM	8410	C5 O5	NAG F 600	-6.712		20.270	1.00 52.65	FFFF
ATOM	8411 8412	C6	NAG F 600	-4.476		21.118	1.00 62.87	FFFF
ATOM	8413	06	NAG F 600	-3.159		21.159	1.00 62.49	FFFF
ATOM	8414	Cl	FUC F 601	-2.346		22.218	1.00 62.89	FFFF
ATOM	8415	C2	FUC F 601	-2.872		23.601	1.00 63.04	FFFF
ATOM	8416	02	FUC F 601	-3.278		23.564	1.00 62.92	FFFF
MOTA	8417	СЗ	FUC F 601	-4.048		24.049	1.00 63.72	FFFF
ATOM	8418	03	FUC F 601	-4.429	106.257	25.372	1.00 63.69	FFFF
ATOM	8419	C4	FUC F 601	-3.678	104.417	23.981	1.00 63.60	FFFF
ATOM	8420	04	FUC F 601	-2.678	104.111	24.943	1.00 64.73	FFFF
MOTA	8421	C5	FUC F 601	-3.176	104.063	22.576	1.00 62.93	FFFF
ATOM	8422	05	FUC F 601	-2.080	104.930	22.179	1.00 63.26	FFFF
ATOM	8423	C6	FUC F 601	-2.670		22.481	1.00 63.68	FFFF
ATOM	8424	C1	NAG F 602	-3.926		21.389	1.00 80.44	FFFF
MOTA	8425	C2	NAG F 602	-2.416		21.225	1.00 83.73	FFFF
ATOM	8426	N2	NAG F 602	-1.689		21.734	1.00 84.84	FFFF
ATOM	8427	C7	NAG F 602	-0.637		22.541	1.00 86.37 1.00 87.02	FFFF FFFF
ATOM	8428	07	NAG F 602	-0.898	109.491	22.120 24.040	1.00 87.02	FFFF
ATOM	8429	C8	NAG F 602 NAG F 602	-1.921		21.964	1.00 86.03	FFFF
ATOM ATOM	8430 8431	C3	NAG F 602	-0.722		21.345	1.00 88.19	FFFF
ATOM	8432	C4	NAG F 602	-2.921		22.018	1.00 86.19	FFFF
ATOM	8433	04	NAG F 602	-2.610		23.171	1.00 86.70	FFFF
MOTA	8434	C5	NAG F 602		112.356	22.131	1.00 84.89	FFFF
ATOM	8435	05	NAG F 602	-4.648	111.354	21.139	1.00 82.07	FFFF
ATOM	8436	C6	NAG F 602	-5.394	113.462	21.912	1.00 84.52	FFFF
MOTA	8437	06	NAG F 602	-6.223	113.174	20.794	1.00 83.97	FFFF
ATOM	8438	C1	MAN F 603	-1.652		23.024	1.00 86.83	FFFF
ATOM	8439	C2	MAN F 603	-1.783		24.164	1.00 86.47	FFFF
MOTA	8440	02	MAN -F-603		115.000	25.408		· FFFF
ATOM	8441	C3	MAN F 603		116.748	24.043	1.00 86.86	FFFF
ATOM	8442	03	MAN F 603 MAN F 603		117.592 116.105	25.188 23.908	1.00 87.34 1.00 86.17	FFFF FFFF
MOTA	8443	C4	MAN F 603		117.101	23.569	1.00 84.75	FFFF
ATOM ATOM	8444 8445	O4 C5	MAN F 603		115.020	22.825	1.00 86.03	FFFF
ATOM	8446	05	MAN F 603		114.062	23.074	1.00 86.77	FFFF
ATOM	8447	C6	MAN F 603		114.249	22.788	1.00 84.99	FFFF
ATOM	8448	06	MAN F 603		113.045	23.530	1.00 84.93	FFFF
ATOM	8449	C1	NAG F 620	-24.886	74.246	7.058	1.00 70.78	FFFF
ATOM	8450	C2	NAG F 620	-25.602	72.980	6.593	1.00 72.34	FFFF
ATOM	8451	N2	NAG F 620	-26.347	73.239	5.372	1.00 72.28	FFFF
ATOM	8452	C7	NAG F 620	-27.678	73.250	5.372	1.00 72.47	FFFF
MOTA	8453	07	NAG F 620	-28.361	72.224	5.307	1.00 72.22	FFFF
ATOM	8454	C8	NAG F 620	-28.348	74.612	5.453	1.00 72.36	FFFF
MOTA	8455	C3	NAG F 620	-26.532	72.509	7.716	1.00 73.80	FFFF
MOTA	8456	03	NAG F 620	-27.126	71.267	7.357	1.00 74.59	FFFF
MOTA	8457	C4	NAG F 620	-25.765	72.351	9.038	1.00 73.28	FFFF
ATOM	8458	04	NAG F 620	-26.697	72.157	10.094	1.00 73.78 1.00 72.62	FFFF
ATOM	8459	C5	NAG F 620	-24.898	73.589	9.346	1.00 72.02	FFFF
ATOM	8460 8461	O5	NAG F 620 NAG F 620	-24.095 -23.930	73.941 73.355	8.205 10.496	1.00 71.49	FFFF
ATOM ATOM	8461	C6 O6	NAG F 620	-22.610	73.333	10.430	1.00 73.44	FFFF
ATOM	8463	C1	NAG F 630	-7.108		-10.335	1.00 69.07	FFFF
ATOM	8464	C2	NAG F 630	-8.262		-10.049	1.00 70.49	FFFF
ATOM	8465	N2	NAG F 630	-8.750	77.707	-8.699	1.00 72.02	FFFF
ATOM	8466	C7	NAG F 630	-9.852	77.100	-8.256	1.00 73.59	FFFF
MOTA	8467	07	NAG F 630	-10.636	76.502	-8.998	1.00 74.08	FFFF
ATOM	8468	C8	NAG F 630	-10.125	77.162	-6.756	1.00 73.04	FFFF
ATOM	8469	СЗ	NAG F 630	-7.776		-10.208	1.00 71.39	FFFF
MOTA	8470	03	NAG F 630	-8.874	75.129	-10.104	1.00 72.35	FFFF

ATOM	8471	C4	NAG F 630	-7.095	75.834	-11.564	1.00 70.84	FFFF	
ATOM	8472	04	NAG F 630	-6.513	74.545	-11.617	1.00 71.88	FFFF	
ATOM	8473	C5	NAG F 630	-6.008	76.886	-11.784	1.00 70.74	FFFF	
ATOM	8474	05	NAG F 630	-6.567	78.211	-11.642	1.00 70.33	FFFF	
ATOM	8475	C6	NAG F 630	-5.396	76.805	-13.176	1.00 70.29	FFFF	
ATOM	8476	06	NAG F 630	-5.049	75.471	-13.518	1.00 67.90	FFFF	
ATOM	8477	C1	NAG F 650	-38.043	85.472	30.384	1.00 41.12	FFFF	
ATOM	8478	C2	NAG F 650	-37.172	85.947	29.232	1.00 41.59	FFFF	
ATOM	8479	N2	NAG F 650	-37.525	87.291	28.815	1.00 41.42	FFFF	
ATOM	8480	C7	NAG F 650	-36.561	88.178	28.592	1.00 43.00	FFFF	
ATOM	8481	07	NAG F 650	-35.875	88.181	27.567	1.00 43.36	FFFF	
ATOM	8482	C8	NAG F 650	-36.300	89.207	29.683	1.00 42.83	FFFF	
MOTA	8483	СЗ	NAG F 650	-37.365	84.970	28.081	1.00 42.87	FFFF	
ATOM	8484	03	NAG F 650	-36.615	85.397	26.951	1.00 41.81	FFFF	
ATOM	8485	C4	NAG F 650	-36.953	83.549	28.508	1.00 42.38	FFFF	
MOTA	8486	04	NAG F 650	-37.343	82.603	27.478	1.00 44.09	FFFF	
MOTA	8487	C5	NAG F 650	-37.637	83.154	29.843	1.00 41.64	FFFF	
ATOM	8488	05	NAG F 650	-37.555	84.207	30.835	1.00 41.04	FFFF	
MOTA	8489	C6	NAG F 650	-36.945	81.959	30.461	1.00 42.69	FFFF	
MOTA	8490	06	NAG F 650	-35.562	82.219	30.684	1.00 41.62	FFFF	
MOTA	8491	C1	NAG F 651	-36.389	82.212	26.547	1.00 45.60	FFEF	
ATOM	8492	C2	NAG F 651	-36.726	80.831	25.989	1.00 46.89	FFFF	
ATOM	8493	N2	NAG F 651	-36.834	79.861	27.053	1.00 44.50	FFFF	
ATOM	8494	C7	NAG F 651	-37.980	79.768	27.709	1.00 44.94	FFFF	
ATOM	8495	07	NAG F 651	-38.998	80.363	27.348	1.00 46.13	FFFF	
ATOM	8496	C8	NAG F 651	-38.008	78.894	28.949	1.00 43.75	FFFF	
ATOM	8497	C3	NAG F 651	-35.649	80.414	24.987	1.00 49.55	FFFF	
ATOM	8498	03	NAG F 651	-35.990	79.167	24.401	1.00 49.84	FFFF	
MOTA	8499	C4	NAG F 651	-35.513	81.471	23.890	1.00 51.05	FFFF	
ATOM	8500	04	NAG F 651	-34.363	81.157	23.080	1.00 56.05	FFFF	
MOTA	8501	C5	NAG F 651	-35.354	82.882	24.498	1.00 48.81	FFFF	
ATOM	8502	05	NAG F 651	-36.394	83.153	25.468	1.00 46.13	FFFF	
ATOM	8503	C6	NAG F 651	-35.439	83.977	23.458	1.00 49.28	FFFF	
ATOM	8504	06	NAG F 651	-34.224	84.103	22.732	1.00 50.36	FFFF	
ATOM	8505	C1	MAN F 652	-34.601	80.658	21.804	1.00 61.55	FFFF	
MOTA	8506	C2	MAN F 652	-33.418	81.033	20.891	1.00 63.25	FFFF	
ATOM	8507	02	MAN F 652	-32.204	80.617	21.497	1.00 64.55	FFFF	
ATOM	8508	C3	MAN F 652	-33.566	80.361	19.527	1.00 64.97	FFFF	
MOTA	8509	О3	MAN F 652	-32.452	80.663	18.701	1.00 67.83	FFFF	
MOTA	8510	C4	MAN F 652	-33.669	78.858	19.729	1.00 65.65	FFFF	
MOTA	8511	04	MAN F 652	-33.797	78.213	18.470	1.00 65.91	FFFF	
MOTA	8512	C5	MAN F 652	-34.893	78.570	20.613	1.00 65.89	FFFF	
ATOM	8513	05	MAN F 652	-34.735	79.223	21.903	1.00 64.01	FFF <b>F</b>	
ATOM	8514	C6	MAN F 652	-35.108	77.082	20.869	1.00 65.63	FFFF	
ATOM	8515	06	MAN F 652	-36.414 <sup>-</sup>	76.666	20:483	<del>-1-00-66-89</del>		

# APPENDIX II

DEMADE	C+ rue	.+	o f	+ h .	h	-i - 1	1			2022					mon-
REMARK REMARK	CODV	iaht	Gar	ret	e pny: tt et	al. A	nril	. aim 15.	2002	Coore	res.	idues t OC		with	TGFa
ATOM	1	CB	ALA		1		1.09		5.328	20.7			101.07		AAAA
ATOM	2	C	ALA		1		9.75		3.235	21.1			101.64		AAAA
MOTA	3	0	ALA	A	1		0.20		2.309	20.4			101.77		AAAA
MOTA	4	N	ALA	A	1	-1	0.05		4.890	22.5			100.56		AAAA
ATOM	5	CA	ALA	Α	1	-1	0.69	7 4	4.255	21.7	157	1.00	101.21		AAAA
ATOM	6	N	SER		2	-	8.45	7 4	3.419	21.3	323	1.00	101.43		AAAA
ATOM	7	CA	SER		2		7.42		2.532	20.7		1.00	100.31		AAAA
ATOM	. 8	CB	SER		2		6.98		3.024	19.3			100.53		AAAA
ATOM	10	OG	SER		2		5.09		2.112	18.7			100.86		AAAA
ATOM ATOM	10 11	С О	SER SER		2 2		5.23		2.532	21.7			99.42		AAAA
ATOM	12	N	GLU		3		5.23 6.37		3.221	21.5			99.25		AAAA
ATOM	13	CA	GLU		3		5.37 5.37		1.745	22.8			97.89 96.09		AAAA AAAA
ATOM	14	CB	GLU		3		5.73		0.432	24.7			96.83		AAAA
ATOM	15	CG	GLU		3		7.01		0.629	25.5			97.29		AAAA
ATOM	16	CD	GLU		3		7.45		9.367	26.2			98.15		AAAA
ATOM	17	OE1	GLU	A	3		5.61		8.773	27.0			97.49		AAAA
ATOM	18	OE2	GLU	Α	3	-1	3.62	6 3	8.969	26.1			99.38		AAAA
ATOM	19	С	GLU	A	3	-;	3.89	1 4:	1.547	23.5	12	1.00	94.55		AAAA
ATOM	20	0	GLU	A	3	-:	3.28	5 4:	2.561	23.1	.55	1.00	93.89		AAAA
ATOM	21	N	LYS	Α	4	-:	3.32	5 4	0.342	23.6	40	1.00	92.20		AAAA
ATOM	22	CA	LYS		4	-1	L.91	0 4	0.032	23.3	71	1.00	89.71		AAAA
ATOM	23	CB	LYS		4		1.09		1.289	23.0	36	1.00	90.43		AAAA
ATOM	24	CG	LYS		4		7.75		1.461	21.5			90.37		AAAA
MOTA	25	CD	LYS		4		0.11		2.686	21.3			89.90		AAAA
ATOM	26	CE	LYS		4		0.52		2.841	19.8			91.16		AAAA
ATOM ATOM	27 28	NZ C	LYS LYS		4 4		0.62		3.128				91.43		AAAA
ATOM	29	0	LYS		4		L.27 D.98		9.369	24.5			87.51		AAAA
ATOM	30	N	LYS		5		05		0.042 B.056	25.5 24.5			86.32 84.78		AAAA AAAA
ATOM	31	CA	LYS		5		0.44		7.276	25.5			81.65		AAAA
ATOM	32	CB	LYS		5		0.08		5.957	25.0			83.08		AAAA
ATOM	33	CG	LYS		5		9.93		5.085	24.3			85.79		AAAA
ATOM	34	CD	LYS		5		86		4.395	25.3			88.18		AAAA
MOTA	35	CE	LYS	Α	5	-2	2.79		3.442	24.5			91.26		AAAA
ATOM	36	NZ	LYS	Α	5	-3	3.78	4 32	2.781	25.4	•		94.01		AAAA
MOTA	37	C	LYS	Α	5	(	70	8 38	3.025	26.2	47	1.00	79.78		AAAA
MOTA	38	0	LYS	Α	5		.74		3.238	25.6	16	1.00	80.18		AAAA
MOTA	39	И	VAL		6		.54		3.415	27.5	80	1.00	<b>7</b> 6.78		AAAA
ATOM	40	CA	VAL		6		60		9.136	28.2			73.09	-	AAAA
ATOM	41	CB	VAL		6		06		0.414	28.8			71.62		AAAA
ATOM ATOM	42 43		VAL		6		2.21		L.234	29.4			70.25		AAAA
ATOM	44	CGZ	VAL VAL		6 6		25:		1.219	27.8			71.85		AAAA
ATOM	45	0	VAL		6		.19		3.261 7.347	29.3 29.8			71.83 71.17		AAAA
ATOM	46	N	CYS		7		3.45		3.531	29.6			69.28		AAAA AAAA
ATOM	47	CA	CYS		7		.11		7.777	30.7			66.95		AAAA
ATOM	48	C	CYS		7		. 06		3.637	31.5			65.24		AAAA
ATOM	49	0	CYS		7		. 43		9.749	31.1			63.56		AAAA
ATOM	50	CB	CYS	Α	7	4	.832	2 36	5.558	30.1			67.15		AAAA
ATOM	51	SG	CYS		7	€	.26		5.958	29.1	16	1.00	72.31		AAAA
ATOM	52	И	GLN		8		. 44		3.095	32.7	09	1.00	64.96		AAAA
ATOM	53	CA	GLN		8		.30		3.766	33.6			63.57		AAAA
ATOM	54	CB	GLN		8		.47		7.858	34.9			65.87		AAAA
ATOM	55 56	CG	GLN		8		.170		7.326	35.4			67.89		AAAA
ATOM	56 57	CD	GLN		8		.265		3.430	35.9			68.67		AAAA
ATOM ATOM	58	NE2	GLN		8		.598		9.122	36.9			69.61		AAAA
ATOM	59	C	GLN		8		.111		3.602 3.248	35.3			68.21		AAAA
ATOM	60	õ	GLN		8		.883		0.433	32.9			61.24 61.11		AAAA AAAA
ATOM	61	N	GLY		9		. 634		3.325	33.1			58.11		AAAA
ATOM	62	CA	GLY		9		. 987		3.693	32.8			55.50		AAAA
ATOM	63	C.	GLY		9		.89		3.263	33.9			53.90		AAAA
ATOM	64	0	GLY		9		.416		7.730	34.9			54.68		AAAA
ATOM	65	N	THR		10		.200		3.488	33.8			50.80		AAAA
ATOM	66	CA	THR		10	13	.136	5 38	3.081	34.8			47.06		AAAA
ATOM	67	CB	THR		10	13	.75	5 36	5.706	34.5		1.00	44.68		AAAA
ATOM	68		THR		10		.440		5.777	33.2			46.21		AAAA
ATOM	6 <u>9</u>		THR		10		.683		6.663	34.4			42.79		AAAA
ATOM	70	С	THR	А	10	14	.256	39	0.088	35.1	26	1.00	46.00		AAAA

MOTA	71	0	THR	A	10	14.445	40.047	34.379	1.00 45.76	AAAA
ATOM	72	И	SER		11	14.986	38.859	36.218	1.00 45.78	AAAA
ATOM	73	CA	SER		11	16.095	39.726	36.627	1.00 45.34	AAAA
MOTA	74	CB	SER		11	15.606	40.778	37.629	1.00 45.79	AAAA
ATOM ATOM	75 76	OG C	SER		11	14.494	41.502	37.136	1.00 51.46	AAAA
ATOM	77	C 0	SER SER		11	17.237	38.932	37.268	1.00 43.48	AAAA
ATOM	78	N	ASN		11 12	17.754 <b>1</b> 7.627	39.319 37.829	38.313	1.00 45.02	AAAA
ATOM	79	CA	ASN		12	18.694	36.983	36.642 37.161	1.00 41.56 1.00 39.21	AAAA AAAA
ATOM	80	СВ	ASN		12	18.465	35.514	36.787	1.00 39.21	AAAA
ATOM	81	CG	ASN		12	17.120	34.987	37.226	1.00 38.78	AAAA
MOTA	82	OD1	ASN	A	12	16.759	35.058	38.404	1.00 36.86	AAAA
ATOM	83		ASN		12	16.372	34.433	36.272	1.00 36.72	AAAA
ATOM	84	C	ASN		12	20.043	37.371	36.587	1.00 39.49	AAAA
ATOM ATOM	85	0	ASN		12	21.051	36.742	36.904	1.00 41.32	AAAA
ATOM	86 87	N CA	LYS LYS		13 13	20.064 21.299	38.381	35.726	1.00 37.64	AAAA
ATOM	88	CB	LYS		13	22.117	38.803 39.681	35.087 36.023	1.00 37.61 1.00 38.53	AAAA
ATOM	89	CG	LYS		13	21.391	40.962	36.380	1.00 30.33	AAAA AAAA
MOTA	90	CD	LYS		13	22.182	41.805	37.351	1.00 49.04	AAAA
ATOM	91	CE	LYS	A	13	21.405	43.057	37.738	1.00 53.41	AAAA
ATOM	92	NZ	$_{ m LYS}$	A	13	21.143	43.955	36.569	1.00 54.41	AAAA
ATOM	93	С	LYS		13	22.121	37.604	34.622	1.00 38.28	AAAA
ATOM	94	0	LYS		13	21.635	36.788	33.829	1.00 38.36	AAAA
ATOM ATOM	95 96	N CA	LEU		14	23.353	37.480	35.114	1.00 36.00	AAAA
ATOM	97	CB	LEU		14 14	24.212 25.652	36.386	34.675	1.00 33.67	AAAA
ATOM	98	CG	LEU		14	25.908	36.865 37.939	34.542 33.490	1.00 30.77 1.00 30.69	АААА АААА
ATOM	99		LEU		14	27.380	38.355	33.494	1.00 30.89	AAAA
ATOM	100		LEU		14	25.524	37.396	32.150	1.00 29.88	AAAA
ATOM	101	С	LEU	А	14	24.175	35.141	35.539	1.00 34.66	AAAA
ATOM	102	0	LEU		14	24.997	34.240	35.369	1.00 35.05	AAAA
MOTA	103	N	THR		15	23.219	35.075	36.454	1.00 34.78	AAAA
ATOM ATOM	104 105	CA CB	THR		15	23.091	33.908	37.321	1.00 36.84	AAAA
ATOM	105		THR THR		15 15	22.265 23.058	34.237 35.030	38.573 39.470	1.00 36.85	AAAA
ATOM	107		THR		15	21.847	32.986	39.470	1.00 42.94 1.00 36.85	AAAA AAAA
ATOM	108	C	THR		15	22.465	32.691	36.640	1.00 37.58	AAAA
MOTA	109	0	THR	A	15	21.637	32.816	35.742	1.00 38.68	AAAA
ATOM	110	N	GLN		16	22.880	31.507	37.074	1.00 38.69	AAAA
ATOM	111	CA	GLN		16	22.344	30.276	36.534	1.00 38.00	AAAA
ATOM	112	CB	GLN		16	23.461	29.300	36.195	1.00 36.30	AAAA
ATOM ATOM	113 114	CG CD	GLN GLN		16 16	22.971	28.164	35.316	1.00 35.07	AAAA
ATOM	115		GLN		16	24.077 25.152	27.257 27.717	34.844 34.439	1.00 34.89 1.00-34.49	AAAA
ATOM	116		GLN		16	23.816	25.954	34.868	1.00 34.64	AAAA AAAA
MOTA	117	C	GLN		16	21.429	29.671	37.596	1.00 40.26	AAAA
ATOM	118	0	GLN		16	21.736	29.722	38.787	1.00 40.86	AAAA
ATOM	119	N	LEU		17	20.306	29.098	37.165	1.00 40.16	AAAA
ATOM	120	CA	LEU		17	19.358	28.511	38.099	1.00 37.59	AAAA
ATOM ATOM	121 122	CB	LEU		17	17.941	28.933	37.722	1.00 35.67	AAAA
ATOM	123	CG	LEU		17 17	17.775 16.330	30.445	37.497	1.00 34.92	AAAA
ATOM	124		LEU		17	18.196	30.779 31.188	37.112 38.761	1.00 28.59 1.00 33.96	АААА АААА
ATOM	125	C	LEU		17	19.472	26.999	38.107	1.00 39.07	AAAA
ATOM	126	0	LEU		17	18.665	26.309	37.488	1.00 40.20	AAAA
ATOM	127	И	GLY	A	18	20.472	26.491	38.822	1.00 39.07	AAAA
ATOM	128	CA	GLY		18	20.685	25.061	38.898	1.00 39.60	AAAA
ATOM	129	С	GLY		18	21.381	24.564	37.647	1.00 42.13	AAAA
ATOM ATOM	130 131	N O	GLY		18	22.177	25.291	37.055	1.00 43.87	AAAA
ATOM	132	CA	THR		19 19	21.084 21.672	23.328 22.714	37.248	1.00 42.95	AAAA
ATOM	133	CB	THR		19	21.200	21.243	36.050 35.890	1.00 42.55 1.00 43.19	АДДА АДДА
ATOM	134		THR		19	19.786	21.223	35.645	1.00 45.22	AAAA
ATOM	135	CG2	THR	A	19	21.488	20.440	37.142	1.00 42.52	AAAA
ATOM	136	С	THR		19	21.268	23.457	34.771	1.00 41.04	AAAA
MOTA	137	0	THR		19	20.372	24.296	34.788	1.00 41.35	AAAA
ATOM ATOM	138 139	N C	PHE		20 20	21.923	23.139	33.660	1.00 40.62	AAAA
ATOM	140	CA CB	PHE PHE		20 20	21.579 22.460	23.765	32.386	1.00 40.80	AAAA
ATOM	141	CG	PHE		20 20	23.835	23.232	31.259 31.230	1.00 37.73 1.00 36.96	АААА АААА
MOTA	142		PHE		20	24.927	23.023	30.855	1.00 36.36	AAAA
ATOM	143	CD2	PHE	A	20	24.040	25.166	31.547	1.00 36.87	AAAA
ATOM	144	CEI	PHE	Α	20	26.206	23.599	30.793	1.00 36.02	AAAA
ATOM	145	CE2	PHE	A	20	25.307	25.728	31.488	1.00 34.90	AAAA

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ATOM	146	CZ	PHE	A	20	26.396	24.942	31.109	1.00 35.52	AAAA
ATOM	147	С	PHE	A	20	20.129	23.435	32.087	1.00 42.19	AAAA
ATOM	148	0	PHE		20	19.332	24.325	31.795	1.00 43.72	AAAA AAAA
ATOM	149	N	GLU		21	19.788	22.150 21.706	32.180 31.922	1.00 44.45 1.00 44.35	AAAA
ATOM	150 151	CA CB	GLU		21 21	18.424 18.303	20.195	32.083	1.00 44.38	AAAA
ATOM ATOM	152	CG	GLU		21	16.888	19.716	31.872	1.00 47.84	AAAA
ATOM	153	CD	GLU		21	16.788	18.214	31.731	1.00 52.42	AAAA
ATOM	154	OE1	GLU		21	17.429	17.677	30.799	1.00 55.13	AAAA
ATOM	155	OE2	GLU	Α	21	16.067	17.576	32.540	1.00 53.51	AAAA
ATOM	156	C	GLU	Α	21	17.439	22.402	32.852	1.00 43.52	AAAA
ATOM	157	0	GLU		21	16.415	22.927	32.404	1.00 44.56 1.00 41.38	<b>AAAA</b> <b>AAAA</b>
ATOM	158	N	ASP		22	17.732	22.397 23.075	34.147 35.080	1.00 41.38	AAAA
ATOM	159	CA CB	ASP ASP		22 22	16.854 17.475	23.112	36.480	1.00 44.08	AAAA
ATOM ATOM	160 161	CG	ASP		22	17.243	21.835	37.260	1.00 47.25	AAAA
ATOM	162		ASP		22	16.204	21.179	37.014	1.00 48.39	AAAA
ATOM	163		ASP		22	18.085	21.507	38.131	1.00 46.89	AAAA
MOTA	164	С	ASP	Α	22	16.670	24.508	34.582	1.00 37.26	AAAA
ATOM	165	0	ASP	Α	22	15.568	24.957	34.305	1.00 34.37	AAAA
ATOM	166	N	HIS		23	17.786	25.212	34.473	1.00 36.01	AAAA AAAA
ATOM	167	CA	HIS		23	17.815	26.593	34.030 33.737	1.00 35.30 1.00 32.68	AAAA
ATOM	168	CB	HIS		23	19.265 19.452	26.970 28.389	33.737	1.00 32.00	AAAA
ATOM	169 170	CG	HIS HIS		23 23	19.770	28.920	32.107	1.00 28.13	AAAA
ATOM ATOM	171		HIS		23	19.349	29.448	34.182	1.00 31.89	AAAA
ATOM	172		HIS		23	19.600	30.571	33.536	1.00 32.54	AAAA
ATOM	173		HIS		23	19.860	30.277	32.276	1.00 31.85	AAAA
MOTA	174	С	HIS		23	16.951	26.810	32.786	1.00 37.38	AAAA
MOTA	175	0	HIS		23	16.247	27.819	32.666	1.00 37.60	AAAA AAAA
MOTA	176	N	PHE		24	17.017	25.857	31.864 30.622	1.00 38.04 1.00 39.10	AAAA
ATOM	177	CA	PHE		24 24	16.259 16.729	25.930 24.857	29.654	1.00 36.88	AAAA
ATOM ATOM	178 179	CB CG	PHE PHE		24	15.936	24.824	28.406	1.00 41.27	AAAA
ATOM	180	CD1			24	16.170	25.749	27.401	1.00 40.97	AAAA
ATOM	181		PHE		24	14.887	23.918	28.256	1.00 42.74	AAAA
ATOM	182	CE1	PHE	Α	24	15.365	25.774	26.258	1.00 42.56	AAAA
MOTA	183	CE2	PHE	Α	24	14.081	23.939	27.121	1.00 42.07	AAAA
ATOM	184	CZ	PHE		24	14.322	24.868	26.123	1.00 41.24	AAAA AAAA
ATOM	185	C	PHE		24	14.746	25.786 26.455	30.805 30.129	1.00 40.50 1.00 40.46	AAAA
ATOM	186	O N	PHE LEU		24 25	13.961 14.336	24.891	31.700	1.00 41.14	AAAA
ATOM ATOM	187 188	CA	LEU		25	12.918	24.682	31.953	1.00 39.95	AAAA
ATOM	189	CB	LEU		25	12.724	23.485	32.872	1.00 37.25	AAAA
ATOM	190	CG	LEU		25	13.249	22.207	32.226	1.00-39.85	- AAAA
ATOM	191	CD1	LEU	Α	25	13.214	21.072	33.224	1.00 41.08	AAAA
ATOM	192		LEU		25	12.400	21.872	31.008	1.00 40.45	AAA AAA
ATOM	193	C	LEU		25	12.339	25.928	32.585 32.398	1.00 40.91 1.00 44.10	AAAA
ATOM	194	0	LEU		25 26	11.164 13.175	26.252 26.631	33.338	1.00 40.58	AAAA
ATOM ATOM	195 196	N CA	SEF SEF		26	12.754	27.845	34.001	1.00 39.54	AAAA
MOTA	197	CB	SEF		26	13.851	28.286	34.967	1.00 40.04	AAAA
ATOM	198	OG	SEF		26	13.429	29.363	35.788	1.00 43.84	AAAA
ATOM	199	С	SEF	R A	26	12.493	28.919	32.942	1.00 39.74	AAAA
MOTA	200	0	SEF	R A	26	11.511	29.661	33.011	1.00 38.61	AAAA
ATOM	201	N	LEU		27	13.375	28.986	31.953	1.00 38.61	дааа аааа
ATOM	202	CA	LEU		27	13.240	29.970	30.895	1.00 40.17 1.00 40.01	AAAA
MOTA	203	CB	LEU		27 27	14.445 14.287	29.911 30.792	29.954 28.711	1.00 40.01	AAAA
MOTA	204 205	CG	LEU LEU		27	14.199	32.248	29.139	1.00 41.18	AAAA
MOTA MOTA	205		LEU		27	15.450	30.590	27.762	1.00 42.19	AAAA
ATOM	207	c	LE		27	11.976	29.710	30.097	1.00 41.62	AAAA
ATOM	208	O	LE		27	11.123	30.583	29.941	1.00 41.12	AAAA
ATOM	209	N	GLì	A I	28	11.877	28.486	29.595	1.00 43.19	AAAA
ATOM	210	CA		1 A		10.753	28.045	28.787	1.00 43.50	AAAA AAAA
ATOM	211	CB		A I		10.934	26.580		1.00 42.43 1.00 43.05	AAAA AAAA
ATOM	212	CG		۱ A		9.836	26.003		1.00 43.03	AAAA
ATOM	213 214	CD OF 1	GLI GLI	Αν		10.100 10.224	24.559 23.756		1.00 44.16	AAAA
ATOM ATOM	214		C GLI			10.210	24.212	26.027	1.00 39.06	AAAA
ATOM	216	C		N A		9.422	28.242		1.00 44.73	AAAA
ATOM	217	ō		N A		8.405	28.496		1.00 46.56	AAAA
ATOM	218	N		G A	. 29	9.431	28.133	30.796	1.00 44.55	AAAA
ATOM	219			G A		8.213	28.293			AAAA
ATOM	220	CB	AR	G A	. 29	8.378	27.655	32.926	1.00 44.13	AAAA

ATOM	221	CG	ARG	A	29	7.081	27.429	33.645	1.00 45.42	AAAA
ATOM	222	CD	ARG	Α	29	7.292	26.811	35.006	1.00 47.52	AAAA
ATOM	223	ΝE	ARG	Α	29	8.120	25.610	34.963	1.00 49.99	AAAA
MOTA	224	CZ	ARG	Α	29	9.315	25.505	35.546	1.00 51.33	AAAA
ATOM	225		ARG		29	9.829	26.538	36.216	1.00 51.14	AAAA
ATOM	226		ARG		29	9.990	24.361	35.477	1.00 48.58	AAAA
ATOM	227	С	ARG		29	7.871	29.769	31.679	1.00 46.59	AAAA
MOTA	228	0	ARG		29	6.712	30.149	31.655	1.00 48.01	AAAA
MOTA	229	N	MET		30	8.887	30.609	31.790	1.00 49.05	AAAA
ATOM	230	CA	MET		30	8.653	32.039	31.954	1.00 50.83	AAAA
ATOM ATOM	231	CB	MET		30	9.880	32.697	32.618	1.00 51.68	AAAA
ATOM	232 233	CG SD	MET MET		30 30	9.999 8.875	32.497	34.141 35.156	1.00 51.70 1.00 55.08	AAAA AAAA
ATOM	234	CE	MET		30	7.485	33.545 32.337	35.138	1.00 53.08	AAAA
ATOM	235	C	MET		30	8.284	32.808	30.686	1.00 52.70	AAAA
ATOM	236	0	MET		30	7.807	33.934	30.781	1.00 52.17	AAAA
ATOM	237	N	PHE		31	8.486	32.213	29.509	1.00 53.51	AAAA
ATOM	238	CA	PHE		31	8.186	32.903	28.253	1.00 53.79	AAAA
ATOM	239	CB	PHE		31	9.487	33.412	27.630	1.00 51.40	AAAA
ATOM	240	CG	PHE		31	10.256	34.340	28.510	1.00 47.05	AAAA
ATOM	241		PHE		31	11.473	33.955	29.045	1.00 47.16	AAAA
ATOM	242		PHE		31	9.756	35.587	28.824	1.00 44.05	AAAA
ATOM	243	CE1	PHE	Α	31	12.181	34.803	29.883	1.00 45.76	AAAA
ATOM	244	CE2	PHE	Α	31	10.457	36.439	29.660	1.00 44.60	AAAA
ATOM	245	CZ	PHE	A	31	11.670	36.049	30.191	1.00 44.40	AAAA
ATOM	246	С	PHE	Α	31	7.441	32.094	27.192	1.00 57.07	AAAA
ATOM	247	0	PHE	Α	31	7.307	32.554	26.064	1.00 56.09	AAAA
ATOM	248	N	ASN		32	6.954	30.910	27.550	1.00 61.83	AAAA
MOTA	249	CA	ASN		32	6.264	30.027	26.609	1.00 66.77	AAAA
ATOM	250	CB	ASN		32	5.398	29.025	27.350	1.00 71.67	AAAA
MOTA	251	CG	ASN		32	5.129	27.789	26.523	1.00 79.03	AAAA
ATOM	252		ASN		32	5.201	27.830	25.297	1.00 78.00	AAAA
MOTA	253		ASN		32	4.816	26.686	27.193	1.00 87.42	AAAA
ATOM	254	C	ASN		32	5.407	30.657	25.516	1.00 67.85	AAAA
ATOM	255	0	ASN		32	5.795	30.693	24.345	1.00 70.14	AAAA
ATOM ATOM	256 257	N CA	ASN ASN		33 33	4.220 3.338	31.117	25.880 24.894	1.00 67.36 1.00 67.78	AAAA AAAA
ATOM	258	CB	ASN		33	1.929	31.727 31.139	25.003	1.00 69.45	AAAA
ATOM	259	CG	ASN		33	1.919	29.619	24.947	1.00 71.16	AAAA
ATOM	260		ASN		33	2.033	29.017	23.872	1.00 72.17	AAAA
ATOM	261		ASN		33	1.790	28.987	26.113	1.00 70.92	AAAA
ATOM	262	С	ASN		33	3.288	33.208	25.202	1.00 67.66	AAAA
ATOM	263	0	ASN	Α	33	2.224	33.750	25.476	1.00 68.45	AAAA
MOTA	264	N	CYS	Α	34	4.438	33.869	25.159	1.00 66.81	AAAA
MOTA	265	CA	CYS	A	• 34	4.473	35.287	25.482	1.00-65.05	AAAA
ATOM	266	C	CYS	Α	34	4.712	36.190	24.283	1.00 63.37	AAAA
ATOM	267	0	CYS		34	5.594	35.944	23.469	1.00 62.13	AAAA
ATOM	268	CB	CYS		34	5.541	35.546	26.545	1.00 66.21	AAAA
ATOM	269	SG	CYS		34	5.468	37.213	27.269	1.00 68.30	AAAA
ATOM	270	N	GLU		35	3.911	37.243	24.189	1.00 62.51	AAA
ATOM	271	CA	GLU		35	4.023	38.204			AAAA
ATOM ATOM	272 273	CB CG	GLU GLU		35 35	2.650 2.111	38.449	22.489	1.00 64.48 1.00 67.60	AAAA AAAA
ATOM	274	CD	GLU		35	0.694	37.250 37.457	21.746 21.285	1.00 69.89	AAAA
ATOM	275		GLU.		35	0.413	38.555	20.758	1.00 72.02	AAAA
ATOM	276		GLU		35	-0.133	36.528	21.442	1.00 70.19	AAAA
ATOM	277	C	GLU		35	4.618	39.511	23.617	1.00 62.34	AAAA
ATOM	278	ŏ	GLU		35	5.366	40.193	22.906	1.00 62.43	AAAA
ATOM	279	N	VAL		36	4.278	39.870	24.849	1.00 61.08	AAAA
ATOM	280	CA	VAL		36	4.826	41.083	25.446	1.00 60.15	AAAA
ATOM	281	CB	VAL		36	3.741	42.133	25.690	1.00 60.11	AAAA
ATOM	282	CG1	VAL		36	4.341	43.343	26.386	1.00 59.33	AAAA
ATOM	283	CG2	VAL	Α	36	3.122	42.540	24.367	1.00 61.58	AAAA
MOTA	284	С	VAL	Α	36	5.518	40.775	26.770	1.00 58.42	AAAA
MOTA	285	0	VAL		36	4.989	40.040	27.611	1.00 57.58	AAAA
ATOM	286	N	VAL		37	6.716	41.324	26.938	1.00 55.82	AAAA
ATOM	287	CA	VAL		37	7.468	41.119	28.166	1.00 53.38	AAAA
ATOM	288	CB	VAL		37	8.928	40.672	27.899	1.00 53.54	AAAA
ATOM	289		L VAL		37	9.642	40.454	29.214	1.00 50.19	AAAA
ATOM	290		VAL		37	8.951	39.388	27.076	1.00 53.07	AAAA
ATOM	291	С	VAL		37	7.497	42.429	28.922	1.00 52.08	AAAA
MOTA	292	0	VAL		37	8.115	43.404	28.479		AAAA
ATOM	293	N	LEU		38	6.814	42.449	30.060		AAAA
MOTA	294	CA CB	LEU		38	6.756	43.635	30.899		AAAA aaaa
ATOM	295	CB	LEU	М	38	5.665	43.447	31.944	1.00 54.36	AAAA

ATOM	296	CG	LEU	Α	38	4.261	43.423	31.333	1.00 55.88	AAAA
ATOM	297		LEU		38	3.219	43.106	32.398	1.00 53.81	AAAA
ATOM	298		LEU		38	3.989	44.781	30.672	1.00 55.58	AAAA
ATOM	299	C	LEU		38	8.106	43.921	31.567	1.00 51.11 1.00 50.75	AAAA <b>A</b> AAA
ATOM	300	0	LEU		38 39	8.477 8.839	45.080 42.858	31.784 31.888	1.00 48.80	AAAA
ATOM ATOM	301 302	N CA	GLY		39	10.140	43.024	32.497	1.00 47.84	AAAA
ATOM	303	C	GLY		39	11.247	42.948	31.462	1.00 47.88	AAAA
ATOM	304	ō	GLY		39	11.175	43.574	30.406	1.00 48.12	AAAA
ATOM	305	N	ASN	Α	40	12.282	42.178	31.768	1.00 46.62	AAAA
MOTA	306	CA	ASN		40	13.400	42.021	30.861	1.00 43.86	AAAA
MOTA	307	CB	ASN		40	14.712	42.206	31.600	1.00 45.69	AAAA
ATOM	308	CG	ASN		40	14.713	43.435	32.454	1.00 48.30 1.00 48.26	AAAA AAAA
ATOM ATOM	309 310		ASN ASN		40 40	14.555 14.887	44.555 43.244	31.953 33.759	1.00 47.89	AAAA
ATOM	311	C	ASN		40	13.386	40.637	30.272	1.00 42.17	AAAA
ATOM	312	0	ASN		40	12.754	39.720	30.803	1.00 41.36	AAAA
ATOM	313	N	LEU		41	14.079	40.491	29.153	1.00 38.93	AAAA
ATOM	314	CA	LEU	Α	41	14.182	39.199	28.521	1.00 35.15	AAAA
ATOM	315	CB	LEU	A	41	13.802	39.293	27.044	1.00 34.04	AAAA
MOTA	316	CG	LEU		41	14.014	38.034	26.202	1.00 33.00	AAAA
MOTA	317		LEU		41	13.199	36.893	26.763	1.00 30.49	AAAA
MOTA	318		LEU		41	13.626	38.326 38.803	24.757 28.694	1.00 32.03 1.00 34.19	AAAA AAAA
ATOM	319 320	С О	LEU		41 41	15.645 16.555	39.477	28.195	1.00 34.13	AAAA
ATOM ATOM	321	И	GLU		42	15.859	37.730	29.444	1.00 31.73	AAAA
ATOM	322	CA	GLU		42	17.190	37.230	29.696	1.00 29.38	AAAA
ATOM	323	CB	GLU		42	17.481	37.297	31.187	1.00 29.65	AAAA
ATOM	324	CG	GLU		42	17.583	38.718	31.724	1.00 29.88	AAAA
MOTA	325	CD	GLU	Α	42	17.623	38.766	33.244	1.00 29.81	AAAA
MOTA	326		GLU		42	18.178	39.756	33.789	1.00 28.19	AAAA
ATOM	327		GLU		42	17.086	37.824	33.884	1.00 25.40	AAAA
ATOM	328	C	GLU		42	17.342	35.800	29.200	1.00 29.63 1.00 30.60	AAAA AAAA
ATOM	329	0	GLU		42 43	16.810 18.070	34.857 35.636	29.790 28.108	1.00 30.00	AAAA
ATOM ATOM	330 331	N CA	ILE ILE		43	18.301	34.313	27.552	1.00 29.01	AAAA
ATOM	332	CB	ILE		43	18.001	34.303	26.043	1.00 26.97	AAAA .
ATOM	333		ILE		43	18.195	32.901	25.460	1.00 26.39	AAAA
ATOM	334	CG1	ILE	Α	43	16.545	34.711	25.827	1.00 25.92	AAAA
MOTA	335	CD1	ILE	Α	43	16.297	35.280	24.460	1.00 28.07	AAAA
ATOM	336	С	ILE		43	19.757	33.992	27.848	1.00 29.64	AAAA
ATOM	337	0	ILE		43	20.669	34.555	27.248 28.788	1.00 31.56	AAAA AAAA
ATOM	338 339	N CA	THR		44 44	19.967 21.312	33.079 32.749	29.205	1.00 29.05	AAAA
ATOM ATOM	340	CB	THR			 21.633		30.521	1.00 29.58	AAAA
ATOM	341	OG1			44	20.720	33.033	31.537	1.00 25.70	AAAA
ATOM	342	CG2			44	21.480	34.975	30.351	1.00 29.22	AAAA
ATOM	343	C	THR	A	44	21.585	31.277	29.411	1.00 31.35	AAAA
MOTA	344	0	THR		44	20.715	30.519	29.824	1.00 32.38	AAAA
ATOM	345	N	TYR		45	22.817	30.881	29.121	1.00 32.62 1.00 32.93	AAAA AAAA
ATOM	346	CA	TYR		45	23.260 23.240	29.510 29.172	29.308 30.797	1.00 32.95	AAAA
ATOM ATOM	347 348	CB CG	TYR TYR		45 45	24.069	30.118	31.637	1.00 31.06	AAAA
MOTA	349		TYR		45	23.468	31.068	32.444	1.00 29.52	AAAA
ATOM	350		TYR		45	24.232	31.944	33.204	1.00 31.24	AAAA
MOTA	351		TYR		45	25.463	30.066	31.607	1.00 30.96	AAAA
MOTA	352	CE2	TYR	A	45	26.235	30.934	32.361	1.00 30.37	AAAA
ATOM	353	CZ	TYR		45	25.617	31.873	33.158	1.00 32.02	AAAA
MOTA	354	ОН	TYR		45	26.383	32.747	33.907	1.00 30.65 1.00 34.83	AAAA AAAA
MOTA	355	С	TYR		45	22.541 22.683	28.412 27.245	28.537 28.878	1.00 37.56	AAAA
ATOM ATOM	356 357	O N	TYR VAL		45 46	21.777	28.751	27.505	1.00 35.00	AAAA
ATOM	358	CA	VAL		46	21.107	27.706	26.743	1.00 34.52	AAAA
ATOM	359	CB	VAL		46	20.071	28.285	25.763	1.00 33.22	AAAA
ATOM	360	CG1	VAL	Α.	46	19.555	27.176	24.851	1.00 29.52	AAAA
MOTA	361		VAL		46	18.909	28.921	26.553	1.00 28.78	AAAA
MOTA	362	С	VAL		46	22.170	26.926	25.979	1.00 36.52	AAAA
ATOM	363	0	VAL		46	23.033	27.511	25.328	1.00 39.39	АААА АААА
MOTA	364	N	GLN		47	22.112	25.601	26.063 25.405	1.00 37.97 1.00 39.51	AAAA
ATOM	365 366	CA CB	GLN GLN		47 47	23.100 23.356	24.750 23.527	26.275	1.00 39.31	AAAA
ATOM ATOM	367	CG	GLN		47	23.792	23.884	27.675	1.00 38.72	AAAA
ATOM	368	CD	GLN		47	25.005	24.760	27.648	1.00 37.88	AAAA
ATOM	369		GLN		47	26.040	24.356	27.159	1.00 38.96	AAAA
ATOM	370		GLN		47	24.882	25.972	28.155	1.00 39.37	AAAA

ATOM	371	С	GLN A	47	22.714	24.302	24.003	1.00 41.84	Aaaa
MOTA	372	0	GLN A	47	21.617	24.596	23.526	1.00 44.46	AAAA
ATOM	373	N	ARG A	48	23.619	23.587	23.341	1.00 42.07	AAAA
ATOM ATOM	374 375	CA	ARG A	48	23.357	23.088	21.997	1.00 42.51	AAAA
ATOM	376	CB CG	ARG A	48 48	24.585	22.374 23.269	21.439	1.00 43.72	AAAA
ATOM	377	CD	ARG A	48	25.650 25.308	23.269	20.865 19.456	1.00 45.93 1.00 48.91	AAAA AAAA
ATOM	378	NE	ARG A	48	26.333	24.522	18.861	1.00 52.47	AAAA
ATOM	379	CZ	ARG A	48	26.347	24.860	17.574	1.00 52.99	AAAA
MOTA	380	NH1	ARG A	48	25.398	24.405	16.773	1.00 54.62	AAAA
ATOM	381		ARG A	48	27.292	25.654	17.089	1.00 53.96	AAAA
ATOM	382	C	ARG A	48	22.183	22.114	21.954	1.00 43.12	AAAA
MOTA	383	0	ARG A	48	22.040	21.255	22.820	1.00 41.21	AAAA
ATOM ATOM	384 385	N CA	ASN A	49 49	21.351 20.200	22.268 21.407	20.927 20.692	1.00 43.46	AAAA
ATOM	386	CB	ASN A	49	20.200	19.933	20.892	1.00 44.27 1.00 46.04	АААА АААА
ATOM	387	CG	ASN A	49	21.737	19.608	19.790	1.00 49.31	AAAA
ATOM	388	OD1	ASN A	49	21.733	20.046	18.638	1.00 50.48	AAAA
MOTA	389	ND2	ASN A	49	22.710	18.836	20.257	1.00 51.17	AAAA
MOTA	390	С	ASN A	49	18.985	21.620	21.570	1.00 43.26	AAAA
MOTA	391	0	ASN A	49	18.110	20.761	21.630	1.00 45.50	AAAA
ATOM	392	N	TYR A	50	18.922	22.736	22.272	1.00 40.42	AAAA
MOTA	393	CA	TYR A	50	17.740	22.989	23.064	1.00 40.65	AAAA
MOTA MOTA	394 395	CB CG	TYR A	50 50	18.073	23.717	24.366	1.00 37.63	AAAA
ATOM	396		TYR A	50 50	18.410 19.620	22.788	25.508 25.539	1.00 34.03	AAAA
ATOM	397	CE1		50	19.935	21.248	26.593	1.00 31.93 1.00 32.64	AAAA AAAA
ATOM	398	CD2	TYR A	50	17.510	22.589	26.559	1.00 33.28	AAAA
ATOM	399	CE2		50	17.815	21.730	27.621	1.00 32.77	AAAA
ATOM	400	CZ	TYR A	50	19.037	21.067	27.629	1.00 33.14	AAAA
MOTA	401	OH	TYR A	50	19.385	20.253	28.686	1.00 35.29	AAAA
ATOM	402	С	TYR A	50	16.906	23.859	22.154	1.00 42.05	AAAA
ATOM	403	0	TYR A	50	17.405	24.829	21.595	1.00 43.55	AAAA
ATOM	404	N	ASP A	51	15.642	23.507	21.976	1.00 43.72	AAAA
ATOM ATOM	405 406	CA CB	ASP A	51	14.803	24.277	21.075	1.00 45.27	AAAA
ATOM	407	CG	ASP A	51 51	13.638 12.800	23.434 24.182	20.558 19.552	1.00 46.52 1.00 47.69	AAAA AAAA
ATOM	408		ASP A	51	13.354	24.546	18.495	1.00 47.03	AAAA
ATOM	409		ASP A	51	11.601	24.416	19.819	1.00 48.35	AAAA
ATOM	410	С	ASP A	51	14.263	25.535	21.708	1.00 44.96	AAAA
ATOM	411	0	ASP A	51	13.631	25.488	22.764	1.00 45.99	AAAA
ATOM	412	N	LEU A	52	14.505	26.658	21.043	1.00 42.77	AAAA
ATOM	413	CA	LEU A	52	14.053	27.945	21.531	1.00 41.91	AAAA
ATOM ATOM	414 415	CB CG	LEU A	52 -52	15.233	28.915	21.590	1.00 40.33	AAAA
ATOM	416		LEU A	52	16:300 17.490	28.599 29.515	22.638 22.467	1.00 39.29 1.00 38.52	АААА АААА
ATOM	417	CD2		52	15.698	28.760	24.021	1.00 38.32	AAAA
MOTA	418	С	LEU A	52	12.965	28.499	20.621	1.00 42.92	AAAA
ATOM	419	0	LEU A	52	12.693	29.709	20.616	1.00 43.03	AAAA
ATOM	420	N	SER A	53	12.332	27.612	19.859	1.00 42.28	AAAA
MOTA	421	CA	SER A	53	11.291	28.030	18.933	1.00 41.55	AAAA
ATOM	422	CB	SER A	53	10.695	26.825	18.229	1.00 43.43	AAAA
ATOM ATOM	423 424	OG C	SER A	53	11.700	26.112	17.525	1.00 47.51	AAAA
ATOM	425	Ö	SER A SER A	53 53	10.191 9.550	28.792 29.643	19.629 19.022	1.00 41.91 1.00 41.70	AAAA AAAA
ATOM	426	N	PHE A	54	9.975	28.498	20.908	1.00 42.18	AAAA
ATOM	427	CA	PHE A	54	8.928	29.174	21.647	1.00 41.47	AAAA
ATOM	428	CB	PHE A	54	8.750	28.550	23.030	1.00 43.28	AAAA
MOTA	429	CG	PHE A	54	9.882	28.816	23.981	1.00 43.30	AAAA
MOTA	430		PHE A	54	9.988	30.035	24.635	1.00 42.85	AAAA
ATOM	431		PHE A	54	10.841	27.840	24.229	1.00 41.88	AAAA
ATOM	432		PHE A	54	11.033	30.272	25.519	1.00 43.80	AAAA
ATOM ATOM	433 434	CEZ	PHE A	54 54	11.883	28.072	25.112	1.00 41.15	AAAA
ATOM	435	C	PHE A	54	11.983 9.205	29.283 30.653	25.756 21.776	1.00 39.85 1.00 42.13	AAAA AAAA
ATOM	436	Ö	PHE A	54	8.334	31.411	22.199	1.00 42.13	AAAA
ATOM	437	N	LEU A	55	10.412	31.068	21.402	1.00 42.00	AAAA
MOTA	438	CA	LEU A	55	10.796	32.480	21.478	1.00 41.40	AAAA
MOTA	439	CB	LEU A	55	12.328	32.623	21.508	1.00 39.77	AAAA
ATOM	440	CG	LEU A	5 <b>5</b>	13.057	32.401	22.842	1.00 38.03	AAAA
ATOM	441	CD1	LEU A	55	14.578	32.528	22.652	1.00 34.81	AAAA
ATOM	442		LEU A	55 55	12.553	33.409	23.850	1.00 34.76	AAAA
ATOM ATOM	443 444	C O	LEU A	5 <b>5</b> 55	10.245	33.316	20.329	1.00 41.19	AAAA
ATOM	445	N	LYS A	56	10.271 9.748	34.546 32.642	20.374 19.299	1.00 40.16 1.00 43.68	AAAA AAAA
			A		2.140	52.042	20.600	1.00 13.00	th nata

ATOM	446	CA	LYS	А	56	9.222	33.318	18.125	1.00	43.14	AAAA
ATOM	447	CB	LYS		56	8.900	32.307	17.035	1.00	44.23	AAAA
ATOM	448	CG	LYS		56	10.106	31.666	16.395	1.00	44.41	AAAA
ATOM	449	CD	LYS		56	9.670	30.651	15.363	_	46.05	AAAA
ATOM	450	CE	LYS	Α	56	10.862	29.933	14.757	1.00		AAAA
ATOM	451	NZ	LYS	Α	56	10.420	28.757	13.951	_	52.85	AAAA
MOTA	452	С	LYS	A	56	8.001	34.164	18.400		44.95	AAAA
ATOM	453	0	LYS		56	7.647	35.007	17.584		46.29	AAAA
MOTA	454	N	THR		57	7.349	33.969	19.539		45.79	AAAA
ATOM	455	CA	THR		57	6.175	34.780	19.813		48.11	AAAA AAAA
ATOM	456	CB	THR		57	5.128	34.009	20.689		49.20 53.29	AAAA
ATOM	457		THR		57	5.721	33.587	21.923 19.950		48.09	AAAA
ATOM	458		THR		57 57	4.613 6.463	32.786 36.148	20.445		48.67	AAAA
ATOM	459	C	THR THR		57 57	5.592	37.019	20.442		51.05	AAAA
ATOM ATOM	460 461	O N	ILE		58	7.668	36.367	20.966		47.16	AAAA
ATOM	462	CA	ILE		58	7.962	37.655	21.605		46.96	AAAA
ATOM	463	CB	ILE		58	9.354	37.677	22.273		45.80	AAAA
ATOM	464		ILE		58	9.596	39.035	22.891	1.00	41.40	AAAA
ATOM	465		ILE		58	9.460	36.589	23.339	1.00	45.34	AAAA
ATOM	466	CD1	ILE	Α	58	8.646	36.855	24.572		47.13	AAAA
ATOM	467	С	ILE	Α	58	7.908	38.818	20.622		47.88	AAAA
MOTA	468	0	ILE	Α	58	8.682	38.865	19.669		49.59	AAAA
ATOM	469	N	GLN	Α	59	7.013	39.771	20.871		48.26	AAAA
ATOM	470	CA	GLN		59	6.869	40.928	19.994		48.90	AAAA .
MOTA	471	CB	GLN		59	5.392	41.134	19.641		48.93	AAAA AAAA
ATOM	472	CG	GLN		59	4.867	40.142	18.608		50.27 52.51	AAAA
ATOM	473	CD	GLN		59	3.385	39.857 40.775	18.763 18.946		55.61	AAAA
ATOM	474		GLN		59 59	2.577 3.016	38.579	18.683		49.97	AAAA
ATOM	475 476		GLN GLN		59 59	7.437	42.192	20.616		49.41	AAAA
ATOM ATOM	477	С 0	GLN		59	7.981	43.049	19.914		48.64	AAAA
ATOM	478	N	GLU		60	7.317	42.301	21.938		50.81	AAAA
ATOM	479	CA	GLU		60	7.818	43.471	22.662	1.00	51.26	AAAA
ATOM	480	СВ	GLU		60	6.675	44.450	22.948	1.00	54.42	AAAA
ATOM	481	CG	GLU		60	5.981	45.020	21.725	1.00	59.92	AAAA
ATOM	482	CD	GLU	Α	60	5.015	46.149.	22.073		64.28	AAAA
ATOM	483	OE1	GLŲ	A	60	4.721	46.970	21.174		68.39	AAAA
ATOM	484	OE2	GLU		60	4.546	46.217	23.235		63.45	AAAA
MOTA	485	С	GLU		60	8.487	43.128	23.991		49.46	АААА АААА
MOTA	486	0	GLU		60	8.099	42.186	24.681 24.347		50.95 46.82	AAAA
ATOM	487	N	VAL		61	9.493 10.195	43.911 43.735	25.610		44.70	AAAA
ATOM	488	CA	VAL		61 61	11.633	43.733	25.401		44.81	AAAA
ATOM ATOM	489 490	CB CG1	VAL			12.542	43.640	26.539		42.71	AAAA
ATOM	491		VAL		61	11.602	41.659	25.327		42.99	AAAA
ATOM	492	C	VAL		61	10.250	45.122	26.227	1.00	43.84	AAAA
ATOM	493	ō	VAL		61	10.854	46.034	25.657	1.00	43.48	AAAA
ATOM	494	N	ALA		62	9.612	45.281	27.385	1.00	43.32	AAAA
MOTA	495	CA	ALA	Α	62	9.568	46.580	28.056		43.36	AAAA
ATOM	496	CB	ALA	Α	62	8.506	46.572	29.114		44.21	AAAA
ATOM	497	C	ALA		62	10.890	47.008	28.662		43.04	AAAA
MOTA	498	0	ALA		62	11.280	48.161	28.540		43.32 42.69	AAAA AAAA
ATOM	499	N	GLY		63	11.585	46.078 46.417	29.308 29.931	_	43.31	AAAA
ATOM	500	CA	GLY		63	12.853 14.040	46.305	28.994		43.30	AAAA
MOTA	501 502	0	GLY GLY		63 63	14.090	46.986	27.962		42.53	AAAA
ATOM ATOM	503	N	TYR		64	15.000	45.453	29.357		40.39	AAAA
ATOM	504	CA	TYR		64	16.184	45.248	28.537	1.00	37.37	AAAA
ATOM	505	CB	TYR		64	17.443	45.582	29.332		38.21	AAAA
ATOM	506	CG	TYR		64	17.678	44.694	30.532	1.00	41.19	AAAA
ATOM	507		TYR		64	18.180	43.397	30.390		39.84	AAAA
ATOM	508		TYR		64.	18.427	42.599	31.510		42.33	AAAA
ATOM	509	CD2	TYR	A	64	17.424	45.164	31.821		41.96	AAAA
MOTA	510	CE2	TYF	A	64	17.667	44.376	32.944		41.43	AAAA
ATOM	511	CZ	TYF		64	18.168	43.101	32.791		43.66	AAAA
MOTA	512	OH	TYF		64	18.423	42.348	33.924		43.08	AAAA
MOTA	513	C	TYF		64	16.251	43.809	28.046		36.03	AAAA AAAA
ATOM	514	0	TYF		64	15.478	42.952	28.489		37.32 32.77	дааа Дааа
MOTA	515	N	VAI		65 65	17.167	43.549	27.118 26.573		30.05	AAAA
ATOM	516	CA	VAI		65 65	17.341	42.217 42.177	25.066		29.78	AAAA
ATOM	517	CB	VAI L VAI		65 65	17.011 17.346	40.811	24.484		29.70	AAAA
ATOM ATOM	518 519		VAI		65	15.554	42.468	24.861		28.97	AAAA
ATOM	520		VAI		65 ·	18.779		26.782		29.60	AAAA
2 2 2 01 1	520	~	-111					-			

ATOM	521	0	VAL A	65	19.720	42.363	26.247	1.00 28.99	AAAA
MOTA	522	N	LEU A	66	18.938	40.703	27.566	1.00 26.78	AAAA
ATOM	523	CA	LEU A	66	20.252	40.151	27.850	1.00 25.41	AAAA
ATOM	524		LEU A	66	20.479	40.035	29.356	1.00 25.75	AAAA
ATOM	525		LEU A		21.809	39.350	29.689	1.00 25.62	AAAA
ATOM	526		LEU A		22.951	40.216	29.228	1.00 23.52	AAAA
ATOM	527		LEU A		21.903	39.111	31.184	1.00 27.39	AAAA
ATOM	528		LEU A		20.407	38.777	27.248	1.00 24.76	AAAA
ATOM	529		LEU A		19.713	37.842	27.644	1.00 24.37	AAAA
ATOM ATOM	530 531		ILE A		21.310	38.648	26.287	1.00 25.48	AAAA
ATOM	532		ILE A		21.565	37.351	25.664	1.00 25.99	AAAA
ATOM	533		ILE A		21.321	37.426	24.158	1.00 23.50	AAAA
ATOM	534		ILE A		21.594 19.864	36.074	23.524	1.00 23.32	AAAA
ATOM	535		ILE A		19.483	37.838 37.950	23.920 22.498	1.00 22.06	AAAA
ATOM	536		ILE A		23.017	36.999	25.967	1.00 20.34 1.00 28.03	AAAA
ATOM	537		ILE A		23.928	37.600	25.409	1.00 28.03	<b>AAAA</b> <b>AAA</b> A
ATOM	538		ALA A		23.251	36.033	26.849	1.00 28.24	AAAA
ATOM	539	CA .	ALA A	68	24.630	35.739	27.205	1.00 29.66	AAAA
ATOM	540	CB .	ALA A	68	25.064	36.712	28.280	1.00 30.16	AAAA
ATOM	541	C,	ALA A	68	24.952	34.327	27.656	1.00 31.21	AAAA
ATOM	542		ALA A		24.115	33.631	28.212	1.00 32.43	AAAA
ATOM	543		LEU A		26.198	33.929	27.429	1.00 34.40	AAAA
ATOM	544		LEU A		26.697	32.611	27.818	1.00 36.99	AAAA
ATOM	545		LEU A		26.777	32.528	29.348	1.00 36.64	AAAA
MOTA	546		LEU A		27.783	33.526	29.950	1.00 36.18	AAAA
ATOM ATOM	547		LEU A		27.352	33.930	31.327	1.00 34.77	AAAA
ATOM	548 549		LEU A LEU A		29.167	32.908	29.981	1.00 34.41	AAAA
MOTA	550		LEU A		25.855	31.472	27.261	1.00 38.89	AAAA
ATOM	551		ASN A		25.647 25.370	30.445	27.912	1.00 40.53	AAAA
ATOM	552		ASN A	_	24.566	31.668 30.668	26.041 25.363	1.00 38.37	AAAA
ATOM	553		ASN A		23.432	31.337	24.591	1.00 37.18 1.00 37.49	AAAA
ATOM	554		ASN A	70	22.385	31.909	25.485	1.00 37.49	AAAA AAAA
MOTA	555		A NZA	70	21.659	31.175	26.131	1.00 39.48	AAAA
ATOM	556		asn a	70	22.292	33.231	25.528	1.00 37.89	AAAA
ATOM	557	C Z	asn a	70	25.445	29.949	24.361	1.00 36.17	AAAA
ATOM	558	0 2	asn a	70	26.190	30.586	23.624	1.00 35.77	AAAA
ATOM	559		THR A	71	25.359	28.628	24.309	1.00 35.84	AAAA
ATOM	560		THR A	71	26.154	27.906	23.320	1.00 36.64	AAAA
ATOM	561		THR A	71	26.958	26.742	23.955	1.00 35.69	AAAA
ATOM	562		THR A	71	26.088	25.930	24.753	1.00 40.21	AAAA
ATOM ATOM	563 564		THR A	71	28.080	27.285	24.821	1.00 30.98	AAAA
ATOM	565		THR A THR A	71 <del>-71</del> -	25.232	27.372	22.236	1.00 36.41	AAAA
ATOM	566		VAL A	72	25.685	26.803 27.567	21.254	10037-39	AAAA
ATOM	567		VAL A	72	22.932	27.118	22.420 21.447	1.00 37.83 1.00 37.68	AAAA
ATOM	568		VAL A	72	21.496	27.490	21.915	1.00 37.68	AAAA
ATOM	569		VAL A	72	21.324	29.000	21.952	1.00 36.29	AAAA AAAA
ATOM	570		VAL A	72	20.466	26.850	21.011	1.00 36.62	AAAA
MOTA	571	C 1	VAL A	72	23.236	27.771	20.097	1.00 38.52	AAAA
ATOM	572	0 7	VAL A	72	23.680	28.910	20.042	1.00 38.68	AAAA
ATOM	573		GLU A	73	22.995	27.058	19.007	1.00 39.42	AAAA
ATOM	574		GLU A	73	23.299	27.595	17.690	1.00 40.33	AAAA
ATOM	575		GLU A	73	23.230	26.469	16.643	1.00 44.37	AAAA
ATOM	576		GLU A	73	23.747	26.885	15.252	1.00 47.89	AAAA
ATOM	577		GLU A	73	23.755	25.751	14.231	1.00 50.31	AAAA
ATOM ATOM	578		GLU A	73	24.490	24.761	14.424	1.00 50.85	AAAA
ATOM	579 580		GLU A	73	23.027	25.853	13.220	1.00 55.22	AAAA
ATOM	581		GLU A	73	22.442	28.781	17.224	1.00 39.15	AAAA
ATOM	582		GLU A ARG A	73 74	22.961	29.720	16.595	1.00 36.44	AAAA
ATOM	583		ARG A	74 74	21.148	28.747	17.542	1.00 36.87	AAAA
ATOM	584		ARG A	74	20.227	29.793	17.106	1.00 37.15	AAAA
MOTA	585		ARG A	74	19.486	29.308	15.851	1.00 39.13	AAAA
ATOM	586		ARG A	74	18.471 17.691	30.266 29.541	15.231 14.111	1.00 43.40	AAAA
ATOM	587		ARG A	74	16.674	30.367	13.448	1.00 47.93 1.00 50.73	AAAA aaaa
ATOM	588		ARG A	74	16.911	31.193	12.423	1.00 50.73	AAAA aaaa
ATOM	589	NH1 7		74	18.140	31.313	11.925	1.00 49.68	AAAA AAAA
ATOM	590	NH2 A	ARG A	74	15.916	31.909	11.895	1.00 43.00	AAAA
ATOM	591		ARG A	74	19.210	30.216	18.161	1.00 36.02	AAAA
MOTA	592		ARG A	74	18.648	29.387	18.867	1.00 36.41	AAAA
ATOM	593		LE A	75	18.984	31.518	18.261	1.00 35.04	AAAA
ATOM	594		LE A	75	18.012	32.085	19.195	1.00 35.06	AAAA
ATOM	595	CB I	LE A	75	18.686	33.071	20.182	1.00 32.14	AAAA

ATOM	596	CG2	ILE	Α	75		17.648	33.663	21.108	1.00 29.33	AAAA
ATOM	597	CG1	ILE	Α	75		19.770	32.351	20.977	1.00 30.01	AAAA
ATOM	598		ILE		75		20.450	33.236	21.991	1.00 29.88	AAAA
ATOM	599	С	ILE		75		17.037	32.842	18.283	1.00 34.90 1.00 34.50	AAAA AAAA
ATOM	600	0	ILE		75 76		17.243 15.961	34.009 32.174	17.974 17.855	1.00 34.30	AAAA
ATOM	601	N CD	PRO PRO		76 76		15.618	30.827	18.336	1.00 35.51	AAAA
ATOM ATOM	602 603	CA	PRO		76		14.914	32.679	16.967	1.00 36.26	AAAA
ATOM	604	CB	PRO		76		14.147	31.412	16.605	1.00 35.71	AAAA
ATOM	605	CG	PRO		76		14.178	30.672	17.882	1.00 37.43	AAAA
ATOM	606	С	PRO	A	76		13.984	33.801	17.393	1.00 36.40	AAAA
MOTA	607	0	PRO		76		12.773	33.661	17.286	1.00 37.50	AAAA
ATOM	608	N	LEU		77		14.534	34.915	17.860	1.00 36.86 1.00 36.14	AAAA AAAA
ATOM	609	CA	LEU		77 77		13.704 14.501	36.053 37.015	18.240 19.102	1.00 34.89	AAAA
ATOM ATOM	610 611	CB CG	LEU		77		14.759	36.557	20.529	1.00 33.15	AAAA
ATOM	612		LEU		77		15.859	37.405	21.160	1.00 33.14	AAAA
ATOM	613		LEU		77		13.476	36.666	21.309	1.00 33.49	AAAA
ATOM	614	С	LEU	A	77		13.314	36.735	16.940	1.00 37.63	AAAA
ATOM	615	0	LEU	Α	77		13.660	37.886	16.707	1.00 36.37	AAAA
ATOM	616	N	GLU		78		12.581	36.009	16.100	1.00 40.28	AAAA AAAA
ATOM	617	CA	GLU		78		12.180	36.494	14.779	1.00 43.01 1.00 42.62	AAAA
ATOM	618	CB	GLU		78 70		11.727 12.711	35.303 34.144	13.910 13.868	1.00 43.99	AAAA
ATOM	619 620	CG CD	GLU GLU		78 78		12.711	32.971	13.000	1.00 47.30	AAAA
ATOM ATOM	621		GLU		78		11.038	32.615	13.069	1.00 48.98	AAAA
ATOM	622		GLU		78		13.067	32.385	12.287	1.00 50.13	AAAA
ATOM	623	C	GLU		78		11.110	37.588	14.709	1.00 43.60	AAAA
ATOM	624	0	GLU		78		10.948	38.211	13.665	1.00 46.18	AAAA
MOTA	625	N	ASN	Α	79		10.392	37.841	15.798	1.00 44.48	AAAA
ATOM	626	CA	ASN	Α	79		9.329	38.838	15.759	1.00 43.41	AAAA
MOTA	627	CB	ASN		79		8.000	38.113	15.882	1.00 43.83	дада дада
ATOM	628	CG	ASN		79		7.811	37.084	14.779 13.598	1.00 46.36 1.00 48.25	AAAA
ATOM	629		ASN ASN		79 79		7.762 7.720	37.434 35.813	15.153	1.00 44.27	AAAA
ATOM ATOM	630 631	C ND2	ASN		79		9.425	39.988	16.761	1.00 44.02	AAAA
ATOM	632	0	ASN		79		8.537	40.836	16.849	1.00 43.65	AAAA
ATOM	633	N	LEU		80		10.515	40.028	17.511	1.00 43.88	AAAA
ATOM	634	CA	LEU		80		10.717	41.107	18.460	1.00 43.22	AAAA
ATOM	635	CB	LEU	Α	80		11.958	40.815	19.297	1.00 42.11	AAAA
ATOM	636	CG	LEU		80		12.430	41.913	20.237	1.00 40.79	AAAA
MOTA	637		LEU		80		11.425	42.093	21.349	1.00 38.67 1.00 39.37	AAAA AAAA
ATOM	638		LEU		80		13.792 10.909	41.544 42.398	20.780 17.654	1.00 33.37	AAAA
ATOM	639 640	С 0	LEU		80 80		11.915	42.556		1:00-42:78	
ATOM ATOM	641	И	GLN		81		9.948	43.317	17.742	1.00 46.68	AAAA
ATOM	642	CA	GLN		81		10.024	44.584	17.000	1.00 46.75	AAAA
ATOM	643	CB	GLN	Α	81		8.662	44.962	16.436	1.00 47.28	AAAA
MOTA	644	CG	GLN	Α	81		7.885	43.796	15.902	1.00 51.74	AAAA
MOTA	645	CD	GLN		81		6.488	44.183	15.511	1.00 52.76	AAAA AAAA
MOTA	646		GLN		81		6.276	44.834 43.794	14.488 16.333	1.00 52.29 1.00 53.29	AAAA
ATOM	647		GLN GLN		81 81		5.517 10.497	45.738	17.852	1.00 33.23	AAAA
ATOM ATOM	648 649	С 0	GLN		81		11.083	46.701	17.342	1.00 46.16	AAAA
ATOM	650	N	ILE		82		10.254	45.641	19.156	1.00 48.09	AAAA
ATOM	651	CA	ILE		82		10.627	46.728	20.050	1.00 47.37	AAAA
ATOM	652	CB	ILE		82		9.409	47.659	20.250	1.00 47.03	
ATOM	653	CG2	ILE	: A	82		8.186	46.839	20.596	1.00 44.21	AAAA
ATOM	654		ILE		82		9.678	48.674	21.353	1.00 48.72	AAAA
ATOM	655		ILE		82		8.616	49.741	21.453	1.00 52.12	AAAA AAAA
MOTA	656	C	ILE		82		11.199	46.368	21.424	1.00 47.37	AAAA
ATOM	657	0	ILE		82		10.742 12.214	45.444 47.127	22.096 21.817	1.00 46.93	AAAA
ATOM	658 659	N CA	ILE		83 83		12.857	46.992	23.112	1.00 47.59	AAAA
ATOM ATOM	660	CB	ILE		83		14.343	46.623	22.984	1.00 46.57	AAAA
ATOM	661		ILE		83		15.011	46.692	24.349	1.00 45.45	AAAA
ATOM	662		ILE		83		14.481	45.225	22.388	1.00 45.78	AAAA
MOTA	663		ILE		83		15.904	44.811	22.144	1.00 46.11	- AAAA
MOTA	664	С		E A	83		12.752	48.393		1.00 49.54	AAAA
MOTA	665	0		A 3	83		13.534	49.279		1.00 50.04 1.00 51.41	AAAA AAAA
MOTA	666	N	ARC		84		11.779	48.602		1.00 51.41	AAAA
MOTA	667 668	CA CB		3 A 3 A	84 84		11.565 10.291	49.918 49.890		1.00 54.08	AAAA
ATOM ATOM	668 669	CG		3 A 3 A			9.050	49.552		1.00 57.10	AAAA
ATOM	670		- ARO			٠.	7.856	49.239	_	1.00 60.71	AAAA
	<b>.</b>			- •							

ATOM	671	NE	ARG	3 A	84	6.712	48.738	25.323	1.00 63.23	AAAA
ATOM	672	CZ	ARG	3 A	84	6.110	49.415	24.348	1.00 64.01	AAAA
ATOM	673		ARG		84	6.538	50.625	24.007	1.00 62.94	AAAA
ATOM ATOM	674		ARG		84	5.076	48.880	23.713	1.00 64.10	AAAA
ATOM	675 676	С 0	ARG		84	12.753	50.388	26.011	1.00 53.35	AAAA
ATOM	677	N	GLY		84 85	13.241	51.512	25.855	1.00 52.81	AAAA
ATOM	678	CA	GLY		85	13.232 14.357	49.519 49.885	26.889 27.716	1.00 54.22	AAAA
ATOM	679	С	GLY		85	13.908	50.709	28.900	1.00 54.55 1.00 55.74	АААА АААА
ATOM	680	0	GLY	A	85	14.578	51.668	29.277	1.00 54.93	AAAA
ATOM	681	N	ASN		86	12.766	50.350	29.478	1.00 56.91	AAAA
MOTA	682	CA	ASN		86	12.261	51.072	30.637	1.00 60.87	AAAA
MOTA	683	CB	ASN		86	10.974	50.440	31.174	1.00 61.88	AAAA
ATOM ATOM	684 685	CG	ASN		86	9.830	50.506	30.185	1.00 63.80	AAAA
ATOM	686		ASN ASN		86 86	9.711	51.466	29.419	1.00 65.19	AAAA
ATOM	687	C	ASN		86	8.963 13.328	49.496 50.983	30.212	1.00 63.96	AAAA
MOTA	688	ō	ASN		86	13.601	51.953	31.710 32.4 <b>13</b>	1.00 62.78 1.00 64.09	AAAA
ATOM	689	N	MET		87	13.928	49.801	31.819	1.00 64.05	АААА АААА
ATOM	690	CA	MET	Α	87	14.970	49.536	32.798	1.00 64.43	AAAA
ATOM	691	CB	MET		87	14.411	48.576	33.872	1.00 65.87	AAAA
MOTA	692	CG	MET		87	12.999	49.026	34.375	1.00 70.44	AAAA
ATOM	693	SD	MET		87	12.282	48.384	35.950	1.00 72.95	AAAA
ATOM	694	CE	MET		87	11.744	46.736	35.421	1.00 74.32	AAAA
ATOM ATOM	695	C	MET		87	16.164	48.960	32.029	1.00 63.31	AAAA
ATOM	696 697	O N	MET		87	15.987	48.153	31.121	1.00 63.10	AAAA
ATOM	698	CA	TYR		88 88	17.373 18.593	49.404	32.369	1.00 62.65	AAAA
ATOM	699	CB	TYR		88	19.588	48.963	31.682	1.00 61.18	AAAA
ATOM	700	CG	TYR		88	19.101	50.126 51.351	31.558 30.807	1.00 63.80	AAAA
ATOM	701		TYR		88	19.924	52.471	30.666	1.00 65.69 1.00 66.17	AAAA
ATOM	702	CE1			88	19.487	53.608	29.994	1.00 67.22	AAAA AAAA
ATOM	703	CD2	TYR	A	88	17.824	51.401	30.250	1.00 66.61	AAAA
ATOM	704	CE2	TYR	A	88	17.376	52.536	29.574	1.00 68.05	AAAA
ATOM	705	CZ	TYR	. A	88	18.211	53.636	29.449	1.00 68.49	AAAA
ATOM	706	OH	TYR		88	17.766	54.760	28.783	1.00 67.94	AAAA
ATOM	707	C	TYR		88	19.334	47.801	32.340	1.00 58.76	AAAA
ATOM ATOM	708	0	TYR		88	18.921	47.285	33.373	1.00 59.04	AAAA
ATOM	709 710	N CA	TYR		89	20.442	47.411	31.716	1.00 56.09	AAAA
ATOM	711	CB	TYR TYR		89 89	21.313	46.343	32.201	1.00 54.47	AAAA
ATOM	712	CG	TYR		89	21.447 22.490	45.229 44.196	31.162	1.00 49.44	AAAA
ATOM	713		TYR		89	22.256	43.291	31.533 32.555	1.00 43.39 1.00 41.39	AAAA
ATOM	714		TYR		89	23.236	42.402	32.967	1.00 41.39	AAAA AAAA
MOTA	715	CD2	TYR	Α	89	23.740	44.180	30.917	1.00 41.69~	
MOTA	716	CE2	TYR	Α	89	24.735	43.291	31.320	1.00 39.28	AAAA
ATOM	717	CZ	TYR		89	24.477	42.403	32.355	1.00 39.93	AAAA
ATOM	718	ОН	TYR		89	25.454	41.533	32.815	1.00 37.70	AAA <b>A</b>
ATOM ATOM	719	C	TYR		89	22.693	46.956	32,426	1.00 57.46	AAAA
ATOM	720 721	О И	TYR		89	23.248	47.594	31.527	1.00 58.38	AAAA
ATOM	722	CA	GLU		90 90	23.256 24.577	46.776	33.614	1.00 59.87	AAAA
ATOM	723	CB	GLU		90	25.618	47.336 46.669	33.894 32.986	1.00 62.35	AAAA
MOTA	724	CG	GLU		90	27.065	46.887	33.394	1.00 62.78 1.00 65.44	AAAA AAAA
ATOM	725	CD	GLU		90	28.042	46.545	32.275	1.00 67.34	AAAA
MOTA	726	OE1	GLU	Α	90	27.927	45.438	31.702	1.00 67.54	AAAA
ATOM	727	OE2	GLU	Α	90	28.926	47.381	31.972	1.00 66.26	AAAA
ATOM	728	С	GLU		90	24.582	48.865	33.673	1.00 63.40	AAAA
ATOM	729	0	GLU		90	25.555	49.434	33.169	1.00 63.23	AAAA
ATOM	730	N	ASN		91	23.475	49.514	34.032	1.00 63.77	AAAA
ATOM ATOM	731 732	CA	ASN		91	23.334	50.970	33.916	1.00 64.49	AAAA
ATOM	732	CB CG	ASN		91	24.480	51.658	34.678	1.00 65.78	AAAA
ATOM	734		ASN ASN		91 91	24.387	51.470	36.189	1.00 66.86	AAAA
ATOM	735	ND2	ASM	7	91	25.385	51.591	36.900	1.00 67.90	AAAA
ATOM	736	C	ASN		91	23.186 23.220	51.192 51.604	36.685 32.518	1.00 66.86	AAAA
ATOM	737	ō	ASN		91	22.543	52.623	32.518 32.357	1.00 63.51 1.00 62.67	AAAA
ATOM	738	N	SER		92	23.859	51.022	31.509	1.00 62.67	AAAA AAAA
MOTA	739	CA	SER		92	23.812	51.618	30.171	1.00 61.36	AAAA
MOTA	740	CB	SER		92	25.235	51.901	29.680	1.00 62.19	AAAA
ATOM	741	OG	SER		92	25.880	52.885	30.464	1.00 67.78	AAAA
ATOM	742	C	SER		92	23.090	50.893	29.034	1.00 59.28	AAAA
ATOM	743	0	SER		92	22.708	51.534	28.056	1.00 59.15	AAAA
ATOM	744	N	TYR		93	22.881	49.585	29.152	1.00 56.42	AAAA
ATOM	745	CA	TYR	A	93	22.300	48.836	28.043	1.00 52.13	AAAA

ATOM	746	CB	TYR	Α	93	23.	231	47.679	27.698	1.00	52.61	AAAA
ATOM	747	CG	TYR		93		665	48.097	27.554	1.00	53.05	AAAA
								47.807	28.547		53.91	AAAA
ATOM	748		TYR		93		599					
ATOM	749	CEL	TYR	Α	93	26.	918	48.220	28.431		54.47	AAAA
ATOM	750	CD2	TYR	Α	93	25.	086	48.813	26.439		53.37	AAAA
ATOM	751	CE2	TYR	А	93	26.	399	49.232	26.312	1.00	55.19	AAAA
ATOM	752	CZ	TYR		93	27.		48.929	27.309	1.00	54.48	AAAA
									27.158		56.08	AAAA
ATOM	753	OH	TYR		93		619	49.311				
MOTA	754	С	TYR	A	93	20.	888	48.291	28.061		50.04	AAAA
ATOM	755	0	TYR	А	93	20.	430	47.722	29.053	1.00	49.81	AAAA
ATOM	756	N	ALA		94	20.	228	48.438	26.912	1.00	47.51	AAAA
			ALA		94		873	47.936	26.693		43.79	AAAA
ATOM	757	CA									43.44	AAAA
ATOM	758	CB	ALA		94		095	48.908	25.820			
MOTA	759	С	ALA	А	94	19.	800	46.580	25.983		41.77	AAAA
ATOM	760	0	ALA	Α	94	18.	089	45.752	26.006	1.00	38.68	AAAA
ATOM	761	N	LEU		95	20.	168	46.378	25.348	1.00	39.80	AAAA
							489	45.145	24.625		38.41	AAAA
ATOM	762	CA	LEU		95							AAAA
MOTA	763	CB	LEU	Α	95		215	45.296	23.124		36.65	
ATOM	764	CG	LEU	А	95	20.	638	44.081	22.285	1.00	35.57	AAAA
ATOM	765	CD1	LEU	Α	95	19.	696	42.907	22.579	1.00	36.04	AAAA
ATOM	766		LEU		95		607	44.418	20.802	1.00	34.75	AAAA
								44.772	24.819		37.96	AAAA
MOTA	767	С	LEU		95		961					
ATOM	768	0	LEU	А	95	22.	854	45.460	24.323		36.46	AAAA
ATOM	769	N	ALA	Α	96	22.	197	43.672	25.533	1.00	37.12	AAAA
ATOM	770	CA	ALA	А	96	23.	543	43.185	25.804	1.00	35.22	AAAA
		CB	ALA		96		848	43.311	27.290		33.69	AAAA
MOTA	771										35.12	AAAA
ATOM	772	С	ALA	А	96		666	41.732	25.365			
MOTA	773	0	ALA	Α	96	22.	939	40.865	25.846		35.74	AAAA
ATOM	774	N	VAL	Α	97	24.	590	41.476	24.445	1.00	34.87	AAAA
ATOM	775	CA	VAL		97		830	40.133	23.920	1.00	33.29	AAAA
								40.119	22.399		31.67	AAAA
ATOM	776	CB	VAL		97		600					
MOTA	777	CG1	VAL	Α	97	24.	845	38.729	21.838		29.99	AAAA
ATOM	778	CG2	VAL	Α	97	23.	168	40.587	22.108	1.00	30.30	AAAA
ATOM	779	С	VAL	A	97	26.	.270	39.779	24.246	1.00	34.76	AAAA
			VAL		97		193	40.210	23.550		37.75	AAAA
ATOM	780	0										AAAA
ATOM	781	N	LEU	A	98		. 463	38.975	25.28		35.01	
ATOM	782	CA	LEU	Α	98	27.	. 807	38.649	25.73	1.00	36.69	AAAA
ATOM	783	CB	LEU	Α	98	28	.035	39.301	27.09	1.00	36.04	AAAA
ATOM	784	CG	LEU		98		.338	40.623	27.36	1.00	35.24	<b>AAA</b> A
							.343	40.871	28.84		33.03	AAAA
MOTA	785		LEU		98							
ATOM	786	CD2	LEU	Α	98	28	.028	41.737	26.583		33.58	AAAA
ATOM	787	С	LEU	Α	98	28	.243	37.206	25.89	7 1.00	39.42	AAAA
ATOM	788	0	LEU	Α	98	27	. 474	36.365	26.34	1.00	40.37	AAAA
ATOM	789	N	SER		99		.518	36.967	25.57	1.00	41.73	AAAA
							.186	35.674	25.73		43.78	AAAA
ATOM	790	CA	SER		99							AAAA
MOTA	791	CB	SER	Α	99		.656	35.528	27.18		43.79	
ATOM	792	QG	SER	Α	99	31	.400	36.666	27.58		45.75	AAAA
ATOM	793	С	SER	Α	99	29	.346	34.473	25.38	1.00	44.83	AAAA
ATOM	794	0	SER		99	29	.136	33.583	26.21	1.00	45.09	AAAA
							.887	34.434	24.14		45.48	AAAA
MOTA	795	И			100							AAAA
ATOM	796	CA	ASN	Α	100		.038	33.350	23.71		47.27	
ATOM	797	CB	ASN	Α	100	26	.938	33.919	22.82		45.75	AAAA
ATOM	798	CG	ASN	Α	100	25	. 954	34.762	23.60	7 1.00	45.34	AAAA
ATOM	799		ASN				.161	34.240	24.38	5 1.00	45.15	AAAA
							.013	36.073	23.42		46.67	AAAA
ATOM	800		ASN								49.78	AAAA
MOTA	801	С			100		.765	32.197	23.03			
MOTA	802	0	ASN	Α	100	28	.722	32.039	21.81		49.18	AAAA
ATOM	803	N	TYR	. A	101	29	.432	31.393	23.86	1 1.00	53.86	AAAA
ATOM	804	CA			101	30	.173	30.211	23.42	0 1.00	58.25	AAAA
							.229	30.575	22.36		58.13	AAAA
MOTA	805	CB			101							AAAA
MOTA	806	CG			101		.397	31.349			0 60.01	
MOTA	807	CD1	. TYR	A	101	33	.704	30.882	22.75		0 61.42	AAAA
MOTA	808	CE1	. TYR	A	101	34	.790	31.564	23.31	7 1.0	0 61.62	AAAA
MOTA	809		TYR				.199	32.525	23.64	7 1.0	0 60.57	AAAA
								33.211			0 61.42	AAAA
MOTA	810		TYR				.272					AAAA
ATOM	811	CZ			101		.562	32.724			0 61.86	
ATOM	812	OH	TYR	A	101	35	.617	33.390			0 63.11	AAAA
ATOM	813	С			101	30	.852	29.611	24.64	4 1.0	0 60.78	AAAA
	814	Ö			101		.619	30.060			0 59.24	AAAA
ATOM											0 65.57	AAAA
ATOM	815	N			102		.688	28.599				
ATOM	816	CA	ASE	A	102	32	.408	27.944			0 69.51	AAAA
ATOM	817	CB	ASF	A	102	32	.021	26.462	25.60	6 1.0	0 69.63	AAAA
ATOM	818	CG			102		.243	25.719			0 70.05	AAAA
											0 71.09	
ATOM	819				. 102		.032	24.490				AAAA
ATOM	820	OD2	ASI	A	102	. 32	.628	26.355	23.30	2 1.0	0 70.18	AAAA

ATOM	821				102	33.9	920	28.082	25.349	1.00 7	1.94	дада
ATOM ATOM	822 823				102	34.4		29.168				AAAA
ATOM	824	N CA			103	34.5		26.979				AAAA
ATOM	825	CB			103	36.6 36.6		26.995 25.712	24.808 25.352			AAAA
ATOM	826	С	ALA	A	103	36.3		27.132	23.312			AAAA AAAA
ATOM	827	0			103	36.6	808	26.143	22.638			AAAA
ATOM ATOM	828 829	N CA			104	36.2		28.364	22.810			AAAA
ATOM	830	CB			104	36.4 37.9		28.684	21.395			AAAA
ATOM	831	CG			104	38.2		29.072 30.438	21.151 21.726			AAAA
ATOM	832	OD1	L ASN	Α	104	37.5		31.420	21.518			AAAA AAAA
MOTA	833		2 ASN			39.3		30.510	22.445	_		AAAA
ATOM ATOM	834 835	C 0			104	36.0		27.543	20.460			AAAA
ATOM	836	И			105	36.5 35.1		27.403 26.733	19.353			AAAA
ATOM	837	CA	LYS	Α	105	34.6		25.605	20.910 20.130			AAAA
ATOM	838	CB	LYS	A	105	34.3		24.409	21.053			АААА АААА
ATOM ATOM	839	CG			105	34.0		23.105	20.337	1.00 8		AAAA
ATOM	840 841	CD CE			105 105	33.8		21.957	21.334	1.00 8		AAAA
ATOM	842	NZ			105	35.1 34.9		21.677 20.675	22.087 23.174	1.00 8		AAAA
MOTA	843	C			105	33.3		25.998	19.408	1.00 8		AAAA AAAA
ATOM	844	0			105	33.3		26.347	18.223	1.00 7		AAAA
ATOM ATOM	845 846	N CA			106	32.2		25.957	20.136	1.00 7		AAAA
ATOM	847	CB			106 106	30.9 30.0		26.289 25.046	19.564	1.00 6		AAAA
ATOM	848	OG1	THR	Α	106	29.6		24.700	19.562 20.904	1.00 6		AAAA
ATOM	849	CG2	THR	A	106	30.7		23.862	18.938	1.00 6		AAAA AAAA
ATOM	850	C			106	30.2		27.435	20.315	1.00 6		AAAA
ATOM ATOM	8 <b>51</b> 852	O N			106 107	30.5		27.679	21.485	1.00 6		AAAA
ATOM	853	CA			107	29.3 28.7		28.139 29.258	19.628 20.242	1.00 5		AAAA
ATOM	854	C			107	27.5		29.739	19.438	1.00 5:		AAAA AAAA
ATOM	855	0			107	27.1		29.150	18.415	1.00 4		AAAA
ATOM ATOM	856 857	N	LEU	A.	108	26.8		30.808	19.916	1.00 4		AAAA
ATOM	858	CA CB	LEU LEU			25.7		31.388	19.255	1.00 43		AAAA
ATOM	859	CG			108	25.23 24.10		32.590 33.371	20.038 19.364	1.00 39		AAAA
ATOM	860	CD1	LEU	Α	108	22.88		32.479	19.160	1.00 38		AAAA AAAA
ATOM ATOM	861 862		LEU			23.7		34.564	20.220	1.00 38		AAAA
ATOM	863	C 0	LEU LEU			26.13 26.98		31.807	17.851	1.00 41		AAAA
ATOM	864	N	LYS			25.44		32.646 31.214	17.652 16.872	1.00 38		AAAA
-ATOM-		EA	LYS-	·A·	1-0-9 -				-15.487	-1.00 43 -1.00-43	3- <u>-</u> 75	AAAA AAAA
ATOM	866	CB	LYS			25.77	72	30.184	14.709	1.00 45		AAAA
ATOM ATOM	867 868	CD	LYS LYS			26.42		30.262	13.353	1.00 49		AAAA
ATOM	869	CE	LYS			26.81 25.59		28.872 27.971	12.860 12.639	1.00 54		AAAA
ATOM	870	NZ	LYS			24.67		28.531	11.610	1.00 56		AAAA AAAA
ATOM	871	С	LYS	Α	109	24.77	73	32.485	14.855	1.00 42		AAAA
MOTA MOTA	872 873	0	LYS			25.18		33.490	14.286	1.00 43		AAAA
ATOM	874	N CA	GLU GLU			23.47 22.50		32.219	14.968	1.00 40	_	AAAA
ATOM	875	CB	GLU			21.79		33.108 32.359	14.362 13.225	1.00 41		AAAA
MOTA	876	CG	GLU	A	110	21.28		30.991	13.626	1.00 42		AAAA AAAA
ATOM	8 <b>7</b> 7	CD	GLU			21.19	96	29.993	12.464	1.00 50		AAAA
ATOM ATOM	878 879	OE 2	GLU GLU	A.	110	22.24	11 :	29.706	11.831	1.00 51		AAAA
ATOM	880	C	GLU			20.08 21.51		29.482	12.199	1.00 51		AAAA
ATOM	881	0	GLU			21.01		33.728 33.061	15.352 16.255	1.00 40		AAAA
MOTA	882	N	LEU	Α	111	21.25		35.021	15.183	1.00 37		AAAA AAAA
ATOM ATOM	883		LEU			20.33		35.773	16.038	1.00 35		AAAA
ATOM	884 885	CB C <b>G</b>	LEU LEU	A 7	111	21.14		36.680	16.971	1.00 33		AAAA
ATOM	886		LEU	A	111	20.47 19.67		37.526 36.651	18.061	1.00 31		AAAA
ATOM	887	CD2	LEU	Α	111	21.56		38.293	19.026 18.799	1.00 27 1.00 27		AAAA AAAA
ATOM	888	С	LEU	A	111	19.49		36.604	15.063	1.00 27		AAAA AAAA
ATOM ATOM	889 800		LEU	A	111	19.63	1 3	37.814	14.987	1.00 34	.90	AAAA
ATOM ATOM	890 891	И CD	PRO PRO			18.61		35.943	14.297	1.00 35	. 91	AAAA
ATOM	892	CA	PRO .	A	112	18.31 17.74		34.504 36.558	14.426	1.00 34	.45	AAAA
MOTA	893	СВ	PRO .	Α.	112	17.14		35.342	13.293 12.582	1.00 34 1.00 34		AAAA AAAA
ATOM	894	CG	PRO .	Α.	112	17.00		34.368	13.703	1.00 34		AAAA
ATOM	895	С	PRO .	Α.	112	16.66	5 3	37.532	13.757	1.00 35		AAAA

APON 897 N HET NI 13 17.07 38.641 14.359 1.00 37.27 AAAA ARTON 897 N HET NI 13 16.088 39.616 14.848 1.00 36.65 AAAA ARTON 898 CB HET A 113 16.088 39.616 14.848 1.00 36.65 AAAA ARTON 898 CB HET A 113 16.951 39.399 17.268 1.00 33.74 AAAA ARTON 990 CB HET A 113 16.941 39.399 17.268 1.00 33.74 AAAA ARTON 990 CC HET A 113 16.941 39.399 17.268 1.00 36.52 AAAA ARTON 990 CC HET A 113 16.941 39.399 17.268 1.00 36.52 AAAA ARTON 990 C MET A 113 15.667 41.042 18.312 1.00 36.64 AAAA ARTON 990 C MET A 113 15.667 41.831 13.792 1.00 38.06 AAAA ARTON 990 N ARG A 114 14.925 40.848 11.422 1.00 38.06 AAAA ARTON 990 C AARG A 114 14.925 40.848 11.422 1.00 39.25 AAAA ARTON 990 C AARG A 114 14.925 40.848 11.422 1.00 39.25 AAAA ARTON 990 C AARG A 114 14.925 40.848 11.422 1.00 39.25 AAAA ARTON 990 C AARG A 114 12.416 39.3990 10.288 1.00 39.39 AAAA ARTON 990 C AARG A 114 12.416 39.3990 10.288 1.00 40.55 AAAA ARTON 990 C AARG A 114 12.416 39.3990 10.288 1.00 40.55 AAAA ARTON 990 C AARG A 114 12.416 39.3990 10.288 1.00 40.55 AAAA ARTON 910 NC ARG A 114 12.416 35.575 10.079 1.00 40.35 AAAA ARTON 910 NC ARG A 114 12.416 35.575 10.079 1.00 40.35 AAAA ARTON 910 NC ARG A 114 12.416 35.575 10.079 1.00 40.35 AAAA ARTON 910 NC ARG A 114 12.416 31.399 9.751 1.00 40.35 AAAA ARTON 910 NC ARG A 114 12.416 31.399 1.258 1.00 40.55 AAAA ARTON 910 NC ARG A 114 12.2416 36.898 10.288 1.00 40.55 AAAA ARTON 910 NC ARG A 114 12.416 31.00 40.35 AAAA ARTON 910 NC ARG A 114 12.2416 31.00 40.35 AAAA ARTON 910 NC ARG A 114 12.416 31.00 40.35 AAAA ARTON 910 NC ARG A 114 12.416 31.00 40.35 AAAA ARTON 910 NC ARG A 114 12.416 31.00 40.35 AAAA ARTON 910 NC ARG A 114 13.399 1.00 40.224 AAAA ARTON 910 NC ARG A 114 13.399 1.00 40.224 AAAA ARTON 910 NC ARG A 114 13.399 1.00 40.224 AAAA ARTON 910 NC ARG A 114 13.399 1.00 40.224 AAAA ARTON 910 NC ARG A 114 13.399 1.00 40.224 AAAA ARTON 910 NC ARG A 114 13.399 1.00 40.224 AAAA ARTON 910 NC ARG A 114 13.399 1.00 40.224 AAAA ARTON 910 NC ARG A 114 13.399 1.00 40.224 AAAA ARTON 910 NC ARG A 114 13.399 1.00 40.224 AAAA ARTON 910 N								
MACON   897   N   MET   A   113	ттом	996 O PF	RO A 112	15.474	37.296	13.531	1.00 37.27	AAAA
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RTONS 899 CB MET A 113			ET A 113	16.088				
ARTOM 901 SS MET A 113 17.71 0.256 18.806 1.00 36.52 AAAA ARTOM 902 CE MET A 113 18.529 11.002 18.312 1.00 30.64 AAAA ARTOM 903 C MET A 113 18.529 11.002 18.312 1.00 30.66 AAAA ARTOM 904 O MET A 113 15.576 0.0.614 13.738 1.00 38.06 AAAA ARTOM 905 CA ARG A 114 14.955 40.070 12.615 1.00 37.27 AAAA ARTOM 905 CA ARG A 114 14.955 40.070 12.615 1.00 37.27 AAAA ARTOM 906 CB ARG A 114 14.659 39.907 10.259 1.00 39.83 AAAA ARTOM 907 CB ARG A 114 13.337 39.131 10.427 1.00 40.45 AAAA ARTOM 908 CG ARG A 114 13.337 39.131 10.427 1.00 40.45 AAAA ARTOM 908 CG ARG A 114 13.643 37.653 10.108 1.00 40.956 AAAA ARTOM 908 CG ARG A 114 13.543 37.653 10.108 1.00 40.956 AAAA ARTOM 910 RE ARG A 114 13.3643 37.653 10.108 1.00 40.956 AAAA ARTOM 910 RE ARG A 114 12.416 35.575 10.079 1.00 40.24 AAAA ARTOM 912 CB ARG A 114 12.2416 36.888 10.258 1.00 40.956 AAAA ARTOM 913 CB ARG A 114 12.2416 34.906 10.208 1.00 40.35 AAAA ARTOM 914 C ARG A 114 11.2211 34.906 10.208 1.00 40.35 AAAA ARTOM 915 C ARG A 114 13.365 42.429 10.552 1.00 42.24 AAAA ARTOM 916 C ARG A 114 13.365 42.429 10.552 1.00 42.24 AAAA ARTOM 917 CA ARN A 115 12.066 42.852 12.953 1.00 40.11 AAAA ARTOM 917 CA ARN A 115 12.066 42.852 12.953 1.00 40.11 AAAA ARTOM 919 CG ARN A 115 10.284 41.299 12.105 1.00 40.23 AAAA ARTOM 919 CG ARN A 115 10.549 41.299 12.105 1.00 40.23 AAAA ARTOM 921 ND2 ARN A 115 10.549 41.786 10.905 1.00 40.28 AAAA ARTOM 922 C ARN A 115 10.549 41.786 10.905 1.00 40.28 AAAA ARTOM 923 O ARN A 115 10.549 41.786 10.905 1.00 40.28 AAAA ARTOM 923 O ARN A 115 10.549 41.786 10.905 1.00 40.28 AAAA ARTOM 923 O ARN A 115 10.549 41.786 10.905 1.00 40.28 AAAA ARTOM 923 O ARN A 115 10.549 41.786 10.905 1.00 40.28 AAAA ARTOM 923 O ARN A 115 10.549 41.786 10.905 1.00 40.28 AAAA ARTOM 924 CG LEU A 116 13.991 44.646 15.667 1.00 44.21 AAAA ARTOM 925 CG LEU A 116 13.991 44.646 15.667 1.00 44.22 AAAA ARTOM 926 CG LEU A 116 13.991 44.646 15.667 1.00 44.22 AAAA ARTOM 927 CG LEU A 116 13.991 44.646 15.667 1.00 44.22 AAAA ARTOM 928 CG LEU A 116 13.991 44.646 15.667 1.00 55.76 AAAA ARTOM 927								
AROM 901 SD MET A 113 15.700 11.002 19.312 1.00 30.64 AAAA AROM 902 CE MET A 113 15.700 11.002 19.312 1.00 30.64 AAAA AROM 903 C MET A 113 15.700 10.014 13.738 1.00 38.06 AAAAA AROM 904 C MET A 113 15.700 10.012 1.015 1.00 39.25 AAAA AROM 905 CA ARGA 114 15.275 40.848 11.424 1.00 40.45 AAAA AROM 906 CA ARGA 114 14.925 40.848 11.424 1.00 40.45 AAAA AROM 907 CB ARGA 114 14.925 40.848 11.424 1.00 40.45 AAAA AROM 907 CB ARGA 114 13.637 39.91 10.259 1.00 39.83 AAAA AROM 909 CD ARGA 114 13.637 39.91 10.259 1.00 39.83 AAAA AROM 909 CD ARGA 114 13.433 30.108 1.00 40.56 AAAA AROM 909 RAGA 114 13.433 30.108 1.00 40.56 AAAA AROM 910 NE ARGA 114 12.440 36.898 10.258 1.00 40.35 AAAA AROM 911 CA ARGA 114 12.440 36.898 10.258 1.00 40.35 AAAA AROM 912 CA ARGA 114 13.453 34.935 9.751 1.00 40.24 AAAA AROM 913 NH2 ARGA 114 13.553 34.935 9.751 1.00 40.24 AAAA AROM 913 NH2 ARGA 114 13.579 34.935 9.751 1.00 40.24 AAAA AROM 915 CA ARGA 114 13.379 41.810 11.542 1.00 40.24 AAAA AROM 915 CA ARGA 114 13.379 41.810 11.542 1.00 40.83 AAAA AROM 915 CA ARGA 114 13.379 41.810 11.542 1.00 40.83 AAAA AROM 915 CA ARGA 114 13.355 12.205 12.252 1.00 42.04 AAAA AROM 915 CA ARGA 114 13.318 41.935 12.735 1.00 40.74 AAAA AROM 917 CA ARGA 114 13.318 41.935 12.735 1.00 40.74 AAAA AROM 917 CA ARGA 115 12.056 42.852 12.953 1.00 40.74 AAAA AROM 917 CA ARGA 115 12.056 42.852 12.953 1.00 40.74 AAAA AROM 917 CA ARGA 115 12.056 42.852 12.953 1.00 40.74 AAAA AROM 917 CA ARGA 115 12.056 42.852 12.953 1.00 40.74 AAAA AROM 917 CA ARGA 115 12.384 41.935 12.056 41.95 1.00 43.93 AAAA AROM 920 CD ARGA 115 12.384 41.935 12.259 1.00 40.28 AAAA AROM 920 CD ARGA 115 12.384 41.935 12.00 10.00 40.28 AAAA AROM 920 CD ARGA 115 12.384 41.935 12.00 10.00 40.28 AAAA AROM 920 CD ARGA 115 12.384 41.935 12.00 10.00 41.55 AAAA AROM 920 CD ARGA 115 12.384 41.944 17.616 10.00 44.21 AAAA AROM 920 CD ARGA 115 12.384 41.944 17.616 10.00 44.21 AAAA AROM 920 CD ARGA 115 12.384 41.944 17.616 10.00 44.21 AAAA AROM 920 CD ARGA 115 12.384 41.944 17.616 10.00 44.21 AAAA AROM 920 CD ARGA 115 12.	MOTA	•						
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## APPORT   September   Process   Pr				14.925	40.848	11.424		
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ATOM 946 OE1 GLU A 118						17.692	1.00 64.10	
ATOM 947 OE2 GLU A 118				11.688	54.617	18.082		
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ATOM 958 N LEU A 120 13.831 22.559 1.00 52.96 AAAA ATOM 959 CA LEU A 120 12.142 53.481 23.302 1.00 52.52 AAAA ATOM 961 CG LEU A 120 10.950 53.124 22.403 1.00 55.17 AAAA ATOM 962 CD1 LEU A 120 9.685 52.961 23.236 1.00 54.68 AAAA ATOM 963 CD2 LEU A 120 10.763 54.212 21.346 1.00 55.00 AAAA ATOM 964 C LEU A 120 10.763 54.212 21.346 1.00 55.00 AAAA ATOM 965 O LEU A 120 14.528 54.186 23.450 1.00 53.51 AAAA ATOM 965 N HIS A 121 14.895 55.341 23.245 1.00 54.88 AAAA ATOM 966 N HIS A 121 15.010 53.445 24.441 1.00 54.15 AAAA ATOM 967 CA HIS A 121 16.032 53.973 25.340 1.00 53.74 AAAA ATOM 968 CB HIS A 121 15.383 54.464 26.640 1.00 55.83 AAAA ATOM 968 CB HIS A 121 15.383 54.464 26.640 1.00 55.83 AAAA ATOM 969 CG HIS A 121 14.777 55.835 26.530 1.00 59.19 AAAA ATOM 969 CG HIS A 121 14.777 55.835 26.550 1.00 59.19 AAAA		957 O						
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ATOM 961 CG LEU A 120 10.950 53.124 22.403 1.00 55.17 AAAA ATOM 962 CD1 LEU A 120 9.685 52.961 23.236 1.00 54.68 AAAA ATOM 963 CD2 LEU A 120 10.763 54.212 21.346 1.00 55.00 AAAA ATOM 964 C LEU A 120 14.528 54.186 23.450 1.00 53.51 AAAA ATOM 965 O LEU A 120 14.895 55.341 23.245 1.00 54.88 AAAA ATOM 966 N HIS A 121 15.010 53.445 24.441 1.00 54.15 AAAA ATOM 967 CA HIS A 121 16.032 53.973 25.340 1.00 53.74 AAAA ATOM 968 CB HIS A 121 15.383 54.464 26.640 1.00 55.83 AAAA ATOM 969 CG HIS A 121 14.777 55.835 26.530 1.00 59.19 AAAA ATOM 969 CG HIS A 121 14.777 55.835 26.530 1.00 59.19 AAAA	ATOM							
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ATOM 965 O LEU A 120 14.895 55.341 23.245 1.00 54.88 AAAA ATOM 966 N HIS A 121 15.010 53.445 24.441 1.00 54.15 AAAA ATOM 967 CA HIS A 121 16.032 53.973 25.340 1.00 53.74 AAAA ATOM 968 CB HIS A 121 15.383 54.464 26.640 1.00 55.83 AAAA ATOM 969 CG HIS A 121 14.777 55.835 26.530 1.00 59.19 AAAA ATOM 969 CG HIS A 121 14.777 55.835 26.550 1.00 59.19 AAAA							1.00 53.51	
ATOM 966 N HIS A 121 15.010 53.445 24.441 1.00 54.15 AAAA ATOM 967 CA HIS A 121 16.032 53.973 25.340 1.00 53.74 AAAA ATOM 968 CB HIS A 121 15.383 54.464 26.640 1.00 55.83 AAAA ATOM 969 CG HIS A 121 14.777 55.835 26.530 1.00 59.19 AAAA ATOM 969 CG HIS A 121 14.777 55.835 26.530 1.00 59.19 AAAA							1.00 54.88	
ATOM 967 CA HIS A 121 16.032 53.973 25.340 1.00 53.74 AAAA ATOM 968 CB HIS A 121 15.383 54.464 26.640 1.00 55.83 AAAA ATOM 969 CG HIS A 121 14.777 55.835 26.530 1.00 59.19 AAAA ATOM 969 CG HIS A 121 14.777 55.835 26.530 1.00 58.69 AAAA					53.445			
ATOM 968 CB HIS A 121 15.383 54.464 26.640 1.00 55.83 AAAA ATOM 969 CG HIS A 121 14.777 55.835 26.530 1.00 59.19 AAAA ATOM 969 CG HIS A 121 13.486 56.245 26.554 1.00 58.69 AAAA								
ATOM 969 CG HIS A 121 14.777 55.835 26.530 1.00 59.19 AAAA								
ATOM 970 CD2 HIS A 121 13.486 56.245 26.554 1.00 50.55								
	MOTA	970 CD2	HIS A 121	13.486	, 50.243	, 20.554		

ATOM	971	ND1	HIS	А	121	15.535	56.971	26.325	1.00 58	3.98	AAAA
ATOM	972	CE1	HIS	A	121	14.738	58.019	26.221	1.00 59		AAAA
ATOM	973		HIS			13.489	57.606	26.356	1.00 60		AAAA
ATOM	974	C	HIS			17.136	52.963	25.642	1.00 52		AAAA
ATOM ATOM	975 976	О И	GLY			16.928 18.316	51.755 53.472	25.563 25.977	1.00 52		AAAA AAAA
ATOM	977	CA	GLY			19.441	52.607	26.287	1.00 49		AAAA
ATOM	978	C.	GLY			20.344	52.341	25.095	1.00 48		AAAA
ATOM	979	0	GLY			19.961	52.564	23.945	1.00 50		AAAA
ATOM	980	N	ALA	Α	123	21.553	51.868	25.371	1.00 46	5.58	AAAA
MOTA	981	CA	ALA			22.511	51.554	24.324	1.00 43		AAAA
ATOM	982	CB	ALA			23.882	52.018	24.737	1.00 45		AAAA
ATOM ATOM	983 984	С 0	ALA			22.536 21.761	50.050	24.016	1.00 43		AAAA
ATOM	985	N	ALA VAL			23.441	49.274 49.655	24.580 23.121	1.00 42		AAAA AAAA
ATOM	986	CA	VAL			23.593	48.273	22.696	1.00 43		AAAA
ATOM	987	СВ	VAL			23.090	48.110	21.247	1.00 44		AAAA
ATOM	988	CG1	VAL	A	124	23.571	46.796	20.651	1.00 42	2.82	AAAA
MOTA	989	CG2	VAL	A	124	21.567	48.177	21.228	1.00 44	1.78	AAAA
ATOM	990	С	VAL			25.053	47.834	22.778	1.00 44		AAAA
ATOM	991	0	VAL			25.947	48.580	22.395	1.00 45		AAAA
ATOM	992	N CA			125 125	25.295	46.628 46.112	23.287	1.00 44		AAAA
ATOM ATOM	993 994	CB			125	26.657 27.206	46.112	23.392 24.804	1.00 46		AAAA AAAA
ATOM	995	CG			125	28.604	45.705	25.023	1.00 46		AAAA
ATOM	996	CD			125	29.023	45.821	26.491	1.00 47		AAAA
MOTA	997	NE			125	30.007	44.817	26.889	1.00 47		AAAA
ATOM	998	CZ	ARG	Α	125	29.952	44.158	28.045	1.00 48		AAAA
MOTA	999	NH1	ARG	Α	125	28.967	44.403	28.902	1.00 46	5.39	AAAA
ATOM	1000	NH2	ARG	A	125	30.864	43.243	28.343	1.00 47	7.92	AAAA
MOTA	1001	С			125	26.768	44.636	23.035	1.00 4		AAAA
ATOM	1002	0			125	25.948	43.821	23.462	1.00 43		AAAA
ATOM	1003	N			126	27.798	44.316	22.251	1.00 43		AAAA
ATOM ATOM	1004 1005	CA CB			126 126	28.100 27.945	42.955 42.828	21.816 20.297	1.00 43		AAAA
ATOM	1005	CG			126	26.524	42.672	19.837	1.00 40		AAAA AAAA
ATOM	1007		PHE			25.634	43.742	19.888	1.00 40		AAAA
ATOM	1008		PHE			26.057	41.435	19.391	1.00 3		AAAA
ATOM	1009	CE1	PHE	Α	126	24.295	43.577	19.502	1.00 3	9.94	AAAA
ATOM	1010	CE2	PHE	A	126	24.731	41.263	19.008	1.00 3	B.84	AAAA
ATOM	1011	CZ			126	23.846	42.337	19.064	1.00 3		AAAA
ATOM	1012	С			126	29.551	42.643	22.199	1.00 4		AAAA
ATOM	1013	0			126	30.448	43.437	21.924	1.00 4		AAAA
ATOM ATOM	1014 1015	N CA			127 127	29.796 31.165	41.494	22.823 - 23.204-	1.00 4		AAAA AAAA
ATOM	1015	CB			127	31.524	41.783	24.547	1.00 4		AAAA —
ATOM	1017	OG			127	30.940	43.062	24.678	1.00 4		AAAA
ATOM	1018	C			127	31.411	39.656	23.311	1.00 4		AAAA
ATOM	1019	0	SER	Α	127	30.585	38.912	23.836	1.00 4		AAAA
ATOM	1020	N			128	32.569	39.231	22.825	1.00 4	7.87	AAAA
MOTA	1021	CA			128	32.973	37.833	22.884	1.00 4		AAAA
MOTA	1022	CB			128	33.331	37.455	24.327	1.00 5		AAAA
ATOM	1023	CG			128 128	34.305	38.436	24.965	1.00 5		AAAA
ATOM ATOM	1024 1025				128	33.903 35.591	39.423 38.175	25.588 24.800	1.00 5:		AAAA AAAA
ATOM	1026	C			128	31.938	36.852	22.336	1.00 4		AAAA
ATOM	1027	ō			128	31.571	35.880	22.999	1.00 4		AAAA
ATOM	1028	N			129	31.462	37.123	21.128	1.00 4		AAAA
ATOM	1029	CA	ASN	A	129	30.510	36.257	20.453	1.00 4	2.56	AAAA
MOTA	1030	CB			. 129	29.265	37.042	20.055	1.00 4		AAAA
ATOM	1031	CG			129	28.513	37.578	21.247	1.00 4		AAAA
ATOM	1032				. 129	27.933	36.821	22.020	1.00 4		AAAA
ATOM	1033				. 129	28.524	38.897	21.407	1.00 4		AAAA
ATOM	1034 1035	С О			. 129	31.259	35.808	19.205	1.00 4		AAAA
ATOM ATOM	1035	N			. 129 . 130	30.905 32.312	36.179 34.998	18.091 19.384	1.00 4		aaaa aaaa
ATOM	1037	CD			130	32.695	34.366	20.660	1.00 4		AAAA
ATOM	1038	CA			130	33.142	34.491	18.287	1.00 4		AAAA
ATOM	1039	CB			130	34.205	33.675	19.014	1.00 4		AAAA
ATOM	1040	CG			130	33.467	33.154	20.204	1.00 3		AAAA
MOTA	1041	С			130	32.473	33.683	17.178	1.00 4		AAAA
MOTA	1042	0			130	33.123	33.356	16.197	1.00 4		AAAA
MOTA	1043	N			131	31.194	33.358	17.308	1.00 4		AAAA
ATOM	1044	CA			131	30.544	32.565	16.279	1.00 4		AAAA
ATOM	1045	CB	ΑЦΑ	LA	131	30.122	31.216	16.857	1.00 3	9.32	AAAA

ATOM	1046	С	ALA A	131	29.343	33.272	15.668	1.00 43.07	AAAA
ATOM	1047	0	ALA A		28.790	32.820	14.655	1.00 43.46	AAAA
ATOM	1048	N	LEU A	132	28.942	34.385	16.277	1.00 42.76	AAAA
ATOM	1049	CA	LEU A	132	27.795	35.128	15.790	1.00 42.69	AAAA
ATOM	1050	CB	LEU A	132	27.491	36.299	16.721	1.00 41.21	AAAA
ATOM	1051	CG	LEU A	132	26.152	36.971	16.419	1.00 40.03	AAAA
ATOM	1052	CD1	LEU A	132	25.056	35.942	16.500	1.00 39.56	AAAA
ATOM	1053	CD2	LEU A	132	25.891	38.087	17.399	1.00 40.70	AAAA
ATOM	1054	С	LEU A	132	28.037	35.634	14.375	1.00 44.13	AAAA
ATOM	1055	0	LEU A	132	29.037	36.290	14.104	1.00 45.92	AAAA
ATOM	1056	N	CYS A	133	27.110	35.335	13.475	1.00 45.62	AAAA
ATOM	1057	CA	CYS P	133	27.230	35.755	12.086	1.00 47.04	AAAA
ATOM	1058	C	CYS A	133	26.291	36.891	11.697	1.00 47.56	AAAA
ATOM	1059	0	CYS F	133	25.170	36.988	12.209	1.00 47.19	AAAA
ATOM	1060	CB	CYS F	133	26.939	34.584	11.145	1.00 50.19	AAAA
ATOM	1061	SG	CYS A	133	28.154	33.232	11.102	1.00 51.23	AAAA
ATOM	1062	N	ASN A	134	26.767	37.736	10.782	1.00 46.25	AAAA
ATOM	1063	CA	ASN A	134	25.991	38.846	10.225	1.00 45.36	AAAA
ATOM	1064	CB	ASN A	134	24.686	38.298	9.643	1.00 44.47	AAAA
ATOM	1065	CG	ASN A	134	24.919	37.200	8.635	1.00 46.53	AAAA
MOTA	1066	OD1	ASN A	134	24.440	36.077	8.801	1.00 47.70	AAAA
MOTA	1067	ND2	ASN A	134	25.666	37.513	7.579	1.00 45.36	AAAA
MOTA	1068	C	ASN A	134	25.660	40.085	11.054	1.00 45.36	AAAA
ATOM	1069	0	ASN A	134	25.640	41.189	10.517	1.00 44.33	AAAA
ATOM	1070	N	VAL A	135	25.401	39.929	12.347	1.00 46.12	AAAA
ATOM	1071	CA	VAL A	135	25.027	41.086	13.150	1.00 46.02	AAAA
MOTA	1072	CB	VAL A	135	24.995	40.764	14.650	1.00 45.53	AAAA
ATOM	1073	CG1	VAL A	135	24.473	41.966	15.413	1.00 45.33	AAAA
ATOM	1074	CG2	VAL A	135	24.094	39.570	14.904	1.00 45.27	AAAA
ATOM	1075	С	VAL A	135	25.909	42.299	12.924	1.00 46.05	AAAA
ATOM	1076	0	VAL A	135	25.436	43.430	12.985	1.00 44.84	AAAA
ATOM	1077	N	GLU A		27.185	42.061	12.644	1.00 47.93	AAAA
ATOM	1078	CA	GLU A		28.135	43.152	12.401	1.00 49.67	AAAA
ATOM	1079	CB	GLU A		29.513	42.587	12.021	1.00 50.13	AAAA
ATOM	1080	CG		136	29.504	41.597	10.853	1.00 52.05	AAAA
ATOM	1081	CD		1 136	30.890	41.092	10.504	0.01 52.11	AAAA
MOTA	1082	OE1			31.538	40.474	11.375	0.01 52.47	AAAA
MOTA	1083	OE2			31.333	41.314	9.357	0.01 52.51	AAAA
ATOM	1084	С		136	27.657	44.109	11.306	1.00 49.47	AAAA
ATOM	1085	0		A 136	27.812	45.327	11.421	1.00 50.68	AAAA
ATOM	1086	N		137	27.053	43.545	10.265	1.00 47.85 1.00 46.41	аааа аааа
ATOM	1087	CA		A 137	26.564	44.313	9.130 7.999	1.00 46.41	AAAA
ATOM	1088	CB		1 137	26.163	43.370	8.234	1.00 46.12	AAAA
ATOM	1089	OG		1 137	24.879	42.803 45.201	9.444	1.00 46.02	AAAA:
ATOM	1090	O		A 137	25.373	45.201	8.584	1.00 47.58	AAAA
ATOM ATOM	1091 1092	N		A 137 A 138	24.855	45.115	10.661	1.00 46.72	AAAA
ATOM	1092	CA		A 138	23.687	45.903	11.030	1.00 46.68	AAAA
ATOM	1094	CB		A 138	23.027	45.335	12.310	1.00 45.26	AAAA
ATOM	1095		ILE A		21.988	46.310	12.871	1.00 41.83	AAAA
ATOM	1096		ILE 2		22.392	43.982	11.979	1.00 44.12	AAAA
ATOM	1097		ILE A		21.459	44.018		1.00 41.26	AAAA
ATOM	1098	Ç		A 138	23.956	47.383		1.00 48.72	AAAA
ATOM	1099	Ó		A 138	24.991	47.773	11.754	1.00 50.14	AAAA
ATOM	1100	N		A 139	23.013	48.199	10.736	1.00 50.31	AAAA
ATOM	1101	CA	GLN A	A 139	23.095	49.656	10.834	1.00 51.22	AAAA
ATOM	1102	CB	GLN A	A 139	22.585	50.306	9.537	1.00 51.00	AAAA
ATOM	1103	CG		A 139	23.383	49.886	8.314	1.00 52.42	AAAA
ATOM	1104	CD	GLN 2	A 139	22.890	50.505	7.016	1.00 53.35	AAAA
ATOM	1105	OE1	GLN I	A 139	21.725	50.370	6.646	1.00 54.43	AAAA
ATOM	1106	NE2	GLN 2	A 139	23.790	51.174	6.307	1.00 54.58	AAAA
ATOM	1107	С	GLN I	A 139	22.230	50.078	12.011	1.00 51.03	AAAA
ATOM	1108	0	GLN A	A 139	21.040	50.351	11.856	1.00 50.84	AAAA
ATOM	1109	N	TRP 2	A 140	22.838	50.125	13.192	1.00 51.64	AAAA
ATOM	1110	CA	TRP 2	A 140	22.122	50.482	14.410	1.00 52.82	AAAA
MOTA	1111	CB		A 140	23.010	50.232	15.628	1.00 47.54	AAAA
ATOM	1112	CG		A 140	23.393	48.796	15.771	1.00 44.18	AAAA
ATOM	1113		TRP .		22.605	47.758	16.356	1.00 39.87	AAAA
ATOM	1114		TRP .		23.329	46.561	16.227	1.00 37.34	AAAA
ATOM	1115		TRP 2		21.353	47.726	16.977	1.00 40.55	AAAA
MOTA	1116		TRP :		24.537	48.199	15.320	1.00 43.32	AAAA
ATOM	1117		TRP .		24.504	46.857	15.590	1.00 40.80	AAAA
ATOM	1118		TRP .		22.847	45.345	16.695	1.00 38.78	AAAA
MOTA	1119		TRP		20.872	46.517		1.00 39.65	AAAA
ATOM	1120	CH2	TRP .	A 140	21.619	45.341	17.300	1.00 40.50	AAAA

ATOM	1121	С	TRP	Α	140		21.579	51.906	14.453	1.00 56.53	AAAA
ATOM	1122	0			140		20:699	52.215	15.267	1.00 57.49	AAAA
ATOM	1123	N	ARG				22.086	52.774	13.582	1.00 59.25	AAAA
ATOM	1124	CA	ARG				21.615	54.147	13.567	1.00 61.26	AAAA
ATOM	1125	CB	ARG				22.457	55.008	12.624	1.00 65.01	AAAA
ATOM	1126	CG	ARG				22.094	56.483	12.710	1.00 70.28	AAAA
ATOM	1127	CD	ARG				22.944	57.350	11.805	1.00 76.23	AAAA
ATOM	1128	NE	ARG				22.727	57.065	10.390	1.00 80.59	AAAA
ATOM	1129	CZ			141		23.299	57.744	9.401	1.00 82.40	AAAA
ATOM	1130		ARG				24.122	58.752	9.676	1.00 83.69	AAAA
ATOM	1131		ARG				23.053	57.416	8.140	1.00 82.50	AAAA
ATOM	1132	C			141		20.155	54.202	13.145	1.00 60.75	AAAA
ATOM	1133	Ö			141		19.543	55.266	13.148	1.00 61.56	AAAA
ATOM	1134	N			142		19.594	53.055	12.785	1.00 59.74	AAAA
ATOM	1135	CA			142		18.201	53.006	12.377	1.00 59.86	AAAA
ATOM	1136	CB			142		18.033	52.194	11.091	1.00 59.54	AAAA
ATOM	1137	CG			142		16.645	52.346	10.484	1.00 60.27	AAAA
ATOM	1138		ASP				16.408	53.363	9.798	1.00 62.20	AAAA
ATOM	1139		ASP				15.784	51.469	10.704	1.00 58.93	AAAA
										1.00 58.95	AAAA
ATOM ATOM	1140	C			142		17.364	52.363	13.467	1.00 60.31	AAAA
	1141	0			142		16.134	52.326	13.376	1.00 61.79	AAAA
ATOM	1142	N			143		18.024	51.854	14.502	•	
ATOM	1143	CA			143		17.301	51.194	15.575	1.00 61.69	AAAA
MOTA	1144	CB			143		17.784	49.736	15.762	1.00 59.26	AAAA
ATOM	1145				143		17.008	49.078	16.891	1.00 57.33	AAAA
ATOM	1146		ILE				17.606	48.953	14.459	1.00 57.45	AAAA
ATOM	1147				143		18.105	47.528	14.508	1.00 55.71	AAAA
ATOM	1148	С			143		17.386	51.896	16.920	1.00 64.50	AAAA
MOTA	1149	0			143		16.401	51.933	17.656	1.00 64.67	AAAA
ATOM	1150	N			144		18.550	52.456	17.242	1.00 67.48	AAAA
ATOM	1151	CA			144		18.737	53.109	18.537	1.00 70.67	AAAA
ATOM	1152	CB			144		20.045	52.627	19.210	1.00 69.51	AAAA
MOTA	1153				144		20.107	51.109	19.180	1.00 69.55	AAAA
ATOM	1154				144		21.251	53.224	18.517	1.00 69.38	AAAA
ATOM	1155	С			144		18.737	54.631	18.520	1.00 73.60	AAAA
ATOM	1156	0			144		19.344	55.256	17.654	1.00 74.34	AAAA
ATOM	1157	N			145		18.057	55.222	19.498	1.00 77.74	AAAA
ATOM	1158	CA			145		17.974	56.673	19.604	1.00 81.10	AAAA
MOTA	1159	CB			145		17.336	57.074	20.932	1.00 81.01	AAAA
MOTA	1160	OG			145		16.015	56.579	21.028	1.00 80.94	AAAA
MOTA	1161	С			145		19.356	57.296	19.494	1.00 83.67	AAAA
ATOM	1162	0			145		20.312	56.830	20.116	1.00 83.51	AAAA
MOTA	1163	N			146		19.449	58.349	18.692	1.00 87.26	AAAA
ATOM	1164	CA			146		20.703	59.060	18.470	1.00 90.66	AAAA
ATOM	1165	CB			146	•	20.424	60.342		-1.00 90.18	· AAAA
ATOM	1166	OG			146		19.315	61.026	18.245	1.00 90.84	AAAA
MOTA	1167	C			146		21.422	59.389	19.773	1.00 92.81	AAAA
MOTA	1168	0			146		22.650	59.342	19.851	1.00 92.50	AAAA
MOTA	1169	N			147		20.649	59.718			AAAA
ATOM	1170	CA			147		21.213	60.053	22.093	1.00 99.48	AAAA
ATOM	1171	CB			147		20.188	60.841	22.916	1.00100.90	AAAA
ATOM	1172	CG			147		18.823	60.175	22.946	1.00102.34	AAAA
ATOM	1173				147		18.382	59.680	21.886	1.00102.99	AAAA
ATOM	1174				147		18.186	60.159	24.024	1.00103.34	AAAA
ATOM	1175	С			147		21.670	58.812	22.854	1.00101.33	AAAA
ATOM	1176	0			147		21.691	58.807	24.084	1.00101.32	AAAA
ATOM	1177	N			148		22.038	57.765	22.117	1.00103.72	AAAA
ATOM	1178	CA			148		22.507	56.518	22.721	1.00106.02	AAAA
MOTA	1179	CB			148		21.338	55.553	22.944	1.00106.28	AAAA
ATOM	1180	CG			148		20.347	56.029		1.00106.66	AAAA
MOTA	1181				148		19.025	56.266	23.60 <b>6</b>	1.00106.88	AAAA
MOTA	1182				148		20.738	56.261	25.278	1.00106.77	AAAA
ATOM	1183				148		18.102	56.728	24.543	1.00107.37	AAAA
ATOM	1184				148		19.826	56.723	26.225	1.00107.07	AAAA
MOTA	1185	CZ			148		18.505	56.958	25.856	1.00107.40	AAAA
ATOM	1186	С			148		23.554	55.844	21.847	1.00107.55	AAAA
ATOM	1187	0	PHE	E P	148		24.315	54.997	22.311	1.00108.01	AAAA
MOTA	1188	N			149		23.587	56.229		1.00109.52	AAAA
MOTA	1189	CA			149		24.534	55.668	19.628	1.00111.99	AAAA
MOTA	1190	CB			149		24.297	56.302	18.253	1.00112.31	AAAA
MOTA	1191	CG			149		25.246	55.995		1.00113.22	AAAA
MOTA	1192				149		24.528	56.260		1.00113.80	AAAA
MOTA	1193	CD	2 LE	J P	149		26.510	56.841	17.195	1.00113.28	AAAA
MOTA	1194	C			149		25.992	55.857		1.00113.77	AAAA
MOTA	1195	0	LE	J 7	149		26.865	55.080	19.676	1.00113.99	AAAA

ATOM	1196	N	SER	A	150	26.249	56.881	20.874	1.00115.82	AAAA
MOTA	1197	CA	SER	A	150	27.606	57.173	21.341	1.00117.44	AAAA
			SER			27.717	58.643	21.769	1.00117.48	AAAA
MOTA	1198	CB	_							
ATOM	1199	OG	SER	A	150	26.936	58.911	22.923	1.00117.36	AAAA
ATOM	1200	С	SER	А	150	28.064	56.279	22.494	1.00118.68	AAAA
							56.101	22.705	1.00118.93	AAAA
ATOM	1201	0	SER			29.267				
ATOM	1202	N	ASN	Α	151	27.108	55.726	23.239	1.00119.51	AAAA
		CA	ASN			27.424	54.856	24.370	1.00120.07	AAAA
ATOM	1203									AAAA
ATOM	1204	CB	ASN	А	151	26.310	54.934	25.426	1.00119.71	
ATOM	1205	CG	ASN	А	151	26.852	55.034	26.851	1.00119.86	AAAA
							55.953	27.181	1.00119.67	AAAA
MOTA	1206	ODT	ASN	А	121	27.604				
ATOM	1207	ND2	ASN	Α	151	26.462	54.092	27.701	1.00119.14	AAAA
ATOM	1208	С	ASN	Δ	151	27.593	53.414	23.890	1.00120.63	AAAA
										AAAA
ATOM	1209	0	ASN	Α	151	27.905	52.518	24.677	1.00120.43	
MOTA	1210	N	MET	Α	152	27.391	53.201	22.591	1.00121.39	AAAA
						27.517	51.873	21.996	1.00122.20	AAAA
ATOM	1211	CA			152					
ATOM	1212	CB	MET	Α	152	26.910	51.851	20.588	1.00122.85	AAAA
ATOM	1213	CG	MET	Δ	152	25.449	52.263	20.520	1.00123.66	AAAA
										AAAA
ATOM	1214	SD	MET	Α	152	24.650	51.695	19.002	1.00125.48	
ATOM	1215	CE	MET	А	152	25.315	52.833	17.796	1.00124.10	AAAA
							51.422	21.918	1.00122.20	AAAA
ATOM	1216	С			152	28.970				
ATOM	1217	0	MET	Α	152	29.755	51.957	21.132	1.00122.44	AAAA
ATOM	1218	N	CFD	Δ	153	29.321	50.430	22.731	1.00122.03	AAAA
										AAAA
MOTA	1219	CA	SER	Α	153	30.679	49.900	22.752	1.00121.82	
ATOM	1220	CB	SER	A	153	31.272	50.029	24.159	1.00121.49	AAAA
								24.172	1.00120.81	AAAA
ATOM	1221	OG	SER	А	153	32.641	49.667			
ATOM	1222	С	SER	Α	153	30.677	48.435	22.315	1.00121.70	AAAA
	1223	0			153	30.925	47.533	23.118	1.00121.72	AAAA
ATOM										AAAA
ATOM	1224	N	MET	Α	154	30.393	48.208	21.035	1.00121.26	
ATOM	1225	CA	MET	A	154	30.347	46.861	20.475	1.00120.36	AAAA
							46.783	19.392	1.00120.21	AAAA
MOTA	1226	CB	WE.L	А	154	29.268				
MOTA	1227	CG	MET	Α	154	29.443	47.791	18.272	1.00120.11	AAAA
ATOM	1228	SD	мет	70.	154	28.087	47.742	17.096	1.00119.86	AAAA
										AAAA
ATOM	1229	CE	MET	А	154	26.802	48.534	18.057	1.00119.71	
MOTA	1230	С	MET	A	154	31.687	46.405	19.896	1.00119.66	AAAA
						32.643	47.176	19.817	1.00119.62	AAAA
ATOM	1231	0			154					
ATOM	1232	N	ASP	A	. 155	31.736	45.140	19.493	1.00118.80	AAAA
ATOM	1233	CA	ACP	Δ.	155	32.936	44.533	18.924	1.00117.98	AAAA
									1.00118.41	AAAA
ATOM	1234	CB	ASP	Α	. 155	34.055	44.478	19.966		
ATOM	1235	CG	ASP	Α	. 155	35.206	43.586	19.536	1.00118.92	AAAA
						35.859	43.898	18.516	1.00118.88	AAAA
ATOM	1236				. 155					
MOTA	1237	OD2	ASP	'A	. 155	35.453	42.567	20.217	1.00119.12	AAAA
ATOM	1238	C	ASP	Δ	155	32.578	43.120	18.487	1.00117.10	AAAA
									1.00117.10	AAAA
ATOM	1239	0	ASP	, Α	. 155	32.248	42.275	19.320		
MOTA	1240	N	PHE	A	156	32.658	42.861	17.185	1.00115.82	AAAA
					156	32.304	41.550	16.647	1.00114.62	AAAA
ATOM	1241	CA								AAAA
ATOM	1242	CB	PHE	I A	. 156	31.252	41.722	15.540	1.00112.06	
ATOM	1243	CG	PHF	. Α	156	30.138	42.676	15.902	1.00109.06	AAAA
					156	30.406	44.020	16.154	1.00107.57	AAAA
ATOM	1244	CD1								
ATOM	1245	CD2	PHE	, д	156	28.827	42.232	16.000	1.00108.22	AAAA
ATOM	1246	CE 1	PHF	. 2	156	29.393	44.902	16.497	1.00105.86	AAAA
							43.115	16.343	1.00107.30	AAAA
ATOM	1247	CEZ			156	27.802				
ATOM	1248	CZ	PHE	; P	156	28.089	44.451	16.592	1.00106.11	AAAA
ATOM	1249	С	PHE	. 7	156	33.521	40.789	16.113	1.00114.57	AAAA
							41.284	16.176	1.00114.53	AAAA
ATOM	1250	0			156	34.649				
ATOM	1251	N	GLN	I P	157	33.286	39.584	15.598	1.00114.50	AAAA
ATOM	1252	CA			157	34.360	38.752	15.054	1.00114.32	AAAA
										AAAA
MOTA	1253	CB	GLN	ı F	157	35.277	38.267	16.186	1.00114.06	
ATOM	1254	CG	GLN	Į Į	157	36.475	37.449	15.724	1.00113.55	AAAA
					157	37.373	37.031	16.872	0.01113.61	AAAA
MOTA	1255	CD								AAAA
ATOM	1256	OE1	. GL1	1 <i>7</i>	1 157	36.940	36.337	17.793	0.01113.53	
ATOM	1257	NES	GT.N	į	157	38.631	37.453	16.824	0.01113.52	AAAA
								14.290	1.00113.93	AAAA
MOTA	1258	С			157	33.802	37.549			
ATOM	1259	0	GLì	1 7	1 157	32.633	37.190	14.443	1.00114.03	AAAA
ATOM	1260	N			158	34.645	36.934	13.464	1.00113.30	AAAA
									1.00112.12	AAAA
MOTA	1261	CA	12A	N 7	1 158	34.246	35.769	12.678		
ATOM	1262	CB	ASI	1 7	158	34.146	36.139	11.193	1.00111.80	AAAA
								10.322	0.01111.90	AAAA
MOTA	1263	CG			4 158	33.761	34.958			
ATOM	1264	OD1	AS	١,	A 158	32.722	34.333	10.528	0.01111.84	AAAA
ATOM	1265				158	34.601	34.648	9.341	0.01111.83	AAAA
										AAAA
ATOM	1266	С			A 158	35.242	34.624	12.864	1.00111.02	
MOTA	1267	0	ASI	V )	A 158	35.841	34.148	11.900	1.00111.10	AAAA
								14.111	1.00109.56	AAAA
ATOM	1268	N			A 159	35.422	34.197			
MOTA	1269	CA	HI	SZ	A 159 ·	36.333	33.099	14.428	1.00107.53	AAAA
ATOM	1270	СВ			A 159	36.915	33.284	15.836	1.00108.10	AAAA
7120.1		25		- '						

MOTA	1271	CG	HIS A	159	38.096	32.409	16.126	0.01108.11	AAAA
ATOM	1272		HIS A		39.381	32.717	16.422	0.01108.20	AAAA
ATOM	1273		HIS A		38.022	31.032	16.130	0.01108.20	AAAA
MOTA	1274		HIS A		39.210	30.530	16.417	0.01108.22	AAAA
ATOM	1275	NE2	HIS A	159	40.052	31.531	16.599	0.01108.21	AAAA
ATOM	1276	С	HIS A	159	35.565	31.775	14.333	1.00105.81	AAAA
ATOM	1277	0	HIS A	159	35.805	30.835	15.092	1.00105.09	AAAA
	1278								
ATOM		N	LEU A		34.619	31.730	13.398	1.00103.90	AAAA
ATOM	1279	CA	LEU A	160	33.808	30.542	13.144	1.00101.51	AAAA
ATOM	1280	CB	LEU A	160	32.361	30.764	13.596	1.00102.15	AAAA
ATOM	1281	CG	LEU A	160	31.508	29.524	13.895	0.01102.19	AAAA
MOTA	1282		LEU A		31.427	28.629	12.671	0.01102.31	AAAA
ATOM	1283		LEU A						
					32.114	28.767	15.066	0.01102.31	AAAA
MOTA	1284	С	LEU A		33.863	30.366	11.631	1.00 99.52	AAAA
ATOM	1285	0	LEU A	160	33.932	29.248	11.120	1.00100.23	AAAA
ATOM	1286	N	GLY A	161	33.831	31.496	10.929	1.00 96.78	AAAA
ATOM	1287	CA	GLY A		33.916		9.481	1.00 92.94	AAAA
ATOM	1288	C							
			GLY A		32.728	30.963	8.714	1.00 90.16	AAAA
ATOM	1289	0	GLY A	161	32.490	31.385	7.582	1.00 90.44	AAAA
ATOM	1290	N	SER A	162	31.984	30.036	9.311	1.00 86.80	AAAA
ATOM	1291	CA	SER A	162	30.825	29.456	8.641	1.00 82.48	AAAA
ATOM	1292	СВ	SER A		30.267		9.436	1.00 83.67	AAAA
ATOM	1293	OG							
			SER A		29.471		10.521	1.00 85.29	AAAA
ATOM	1294	С	SER A	162	29.742	30.509	8.481	1.00 78.16	AAAA
ATOM	1295	0	SER A	162	28.551	30.215	8.602	1.00 78.94	AAAA
ATOM	1296	N	CYS A	163	30.164		8.221	1.00 72.13	AAAA
ATOM	1297	CA	CYS A		29.232		8.031	1.00 65.92	AAAA
ATOM	1298	C							
			CYS A		29.029		6.554	1.00 64.28	AAAA
ATOM	1299	0	CYS A		29.993		5.802	1.00 63.90	AAAA
ATOM	1300	CB	CYS A	163	29.759	34.120	8.662	1.00 62.73	AAAA
ATOM	1301	SG	CYS A	163	29.846	34.152	10.477	1.00 56.37	AAAA
ATOM	1302	N	GLN A	164	27.769		6.144	1.00 62.24	AAAA
ATOM	1303	CA	GLN A		27.437		4.757	1.00 60.30	AAAA
MOTA	1304	CB	GLN A		26.084		4.417	1.00 62.36	AAAA
MOTA	1305	CG	GLN A		25.917	31.363	4.822	1.00 66.38	AAAA
ATOM	1306	CD	GLN A	164	24.519	30.823	4.504	1.00 69.57	AAAA
ATOM	1307	OE1	GLN A	164	24.069	29.838	5.099	1.00 70.98	AAAA
MOTA	1308	NE2	GLN A	164	23.831		3.558	1.00 69.42	AAAA
ATOM	1309	С	GLN A		27.347				
							4.618	1.00 58.46	AAAA
ATOM	1310	0	GLN A		27.099		5.598	1.00 57.00	AAAA
ATOM	1311	N	LYS A	165	27.569	35.476	3.420	1.00 57.08	AAAA
MOTA	1312	CA	LYS A	165	27.445	36.917	3.245	1.00 56.35	AAAA
MOTA	1313	CB	LYS A	165	28.153	37.394	1.976	1.00 57.91	AAAA
ATOM	1314	CG	LYS A		29.656		2.115	1.00 61.88	AAAA
ATOM									
	1315	CD.	LYS 7		30.220		1.058	1.00 64.32	· AAAA
MOTA	1316	CE	LYS P		30.092	37.916	-0.339	1.00 66.55	AAAA
MOTA	1317	NZ	LYS A	165	30.888	36.664	-0.471	1.00 68.26	AAAA
ATOM	1318	С	LYS A	165	25.957	37.242	3.153	1.00 54.94	AAAA
ATOM	1319	0	LYS F	165	25.143	36.384	2.790	1.00 54.32	AAAA
ATOM	1320	N	CYS F		25.591		3.498	1.00 52.36	AAAA
ATOM	1321	CA							
			CYS F		24.195		3.432	1.00 50.42	AAAA
ATOM	1322	С	CYS F		23.712		1.994	1.00 50.04	AAAA
MOTA	1323	0	CYS F		24.504	38.727	1.054	1.00 48.76	AAAA
MOTA	1324	CB	CYS F	166	24.017	40.310	3.845	1.00 50.37	AAAA
MOTA	1325	SG	CYS F	166	24.182		5.630	1.00 52.73	AAAA
ATOM	1326	N	ASP A		22.420		1.830	1.00 48.48	AAAA
ATOM	1327	CA	ASP A		21.837			1.00 47.19	
							0.509		AAAA
ATOM	1328	CB	ASP F		20.336		0.643	1.00 47.24	AAAA
MOTA	1329	CG	ASP F	167	19.723	37.368	-0.624	1.00 48.93	AAAA
ATOM	1330	OD1	ASP F	167	19.654	38.112	-1.630	1.00 49.46	AAAA
MOTA	1331		ASP A		19.316		-0.616	1.00 46.29	AAAA
ATOM	1332	C	ASP A		22.112		-0.319	1.00 46.69	AAAA
ATOM	1333	0	ASP A		22.082		0.211	1.00 48.29	AAAA
MOTA	1334	N		168	22.385		-1.629	1.00 46.34	AAAA
ATOM	1335	CD	PRO F	168	22.488	38.036	-2.406	1.00 46.35	AAAA
ATOM	1336	CA	PRO F	168	22.669	40.447	-2.481	1.00 44.93	AAAA
ATOM	1337	CB		168	23.006		-3.834	1.00 45.07	AAAA
ATOM	1338	CG	PRO F						AAAA
					23.456		-3.490	1.00 44.46	
ATOM	1339	C		168	21.515		-2.596	1.00 45.29	AAAA
MOTA	1340	0		168	21.701		-3.021	1.00 45.23	<b>AAAA</b>
MOTA	1341	N	SER A	169	20.321	40.986	-2.222	1.00 46.74	AAAA
MOTA	1342	CA	SER A	169	19.144	41.832	-2.315	1.00 50.75	AAAA
ATOM	1343	CB		169	17.900		-2.570	1.00 52.05	AAAA
MOTA	1344	OG		169	18.016		-3.787	1.00 51.10	AAAA
MOTA	1345	С	SER A	A 169	18.942	42.681	-1.069	1.00 53.98	AAAA

ATOM	1346	0	SER	Δ.	169	17.978	43.441	-0.964	1.00 55.46	AAAA
		N	CYS			19.856	42.559	-0.120	1.00 57.23	AAAA
MOTA	1347							1.113	1.00 60.49	AAAA
MOTA	1348	CA	CYS			19.757	43.322			AAAA
MOTA	1349	С	CYS	Α	170	20.267	44.762	0.910	1.00 63.76	
ATOM	1350	0	CYS	Α	170	20.953	45.048	-0.073	1.00 63.93	AAAA
ATOM	1351	СВ	CYS			20.558	42.627	2.218	1.00 58.77	AAAA
						19.931	41.035	2.868	1.00 54.39	AAAA
MOTA	1352	SG	CYS						1.00 66.44	AAAA
ATOM	1353	N	PRO	Α	171	19.920	45.684	1.833		
ATOM	1354	CD	PRO	Α	171	18.807	45.497	2.779	1.00 67.90	AAAA
		CA			171	20.315	47.103	1.800	1.00 67.86	AAAA
ATOM	1355								1.00 67.76	AAAA
ATOM	1356	CB	PRO	А	171	19.275	47.780	2.700		
ATOM	1357	CG	PRO	Α	171	18.110	46.826	2.681	1.00 69.05	AAAA
ATOM	1358	С	PRO	А	171	21.738	47.369	2.297	1.00 68.77	AAAA
			-			22.082	47.040	3.430	1.00 69.34	AAAA
MOTA	1359	0			171					AAAA
MOTA	1360	N	ASN	Α	172	22.554	47.989	1.454	1.00 69.66	
ATOM	1361	CA	ASN	Α	172	23.935	48.288	1.811	1.00 69.99	AAAA
	1362	CB			172	23.999	49.532	2.701	1.00 71.70	AAAA
ATOM								2.884	1.00 71.86	AAAA
ATOM	1363	ÇG			172	25.421	50.052			
ATOM	1364	OD1	ASN	Α	172	25.651	51.021	3.607	0.01 72.16	AAAA
ATOM	1365	ND2	ASN	А	172	26.378	49.408	2.225	0.01 72.15	AAAA
		C			172	24.550	47.085	2.532	1.00 69.50	AAAA
ATOM	1366							3.435	1.00 69.96	AAAA
ATOM	1367	0			172	25.383	47.229			
ATOM	1368	И	GLY	Α	173	24.121	45.894	2.122	1.00 67.54	AAAA
MOTA	1369	CA	GLY	Α	173	24.633	44.672	2.708	1.00 64.33	AAAA
					173	24.344	44.534	4.187	1.00 62.23	AAAA
MOTA	1370	C							1.00 63.58	AAAA
MOTA	1371	0	GLY	Α	173	25.254	44.243	4.969		
ATOM	1372	N	SER	A	174	23.086	44.734	4.574	1.00 57.73	AAAA
ATOM	1373	CA	SER	А	174	22.698	44.626	5.973	1.00 53.75	AAAA
						22.084	45.935	6.468	1.00 53.52	AAAA
ATOM	1374	CB			174				1.00 53.71	AAAA
MOTA	1375	OG	SER	. А	174	23.075	46.915	6.699		
MOTA	1376	С	SER	A	174	21.705	43.508	6.193	1.00 51.76	AAAA
ATOM	1377	0			174	20.701	43.416	5.505	1.00 51.21	AAAA
						21.980	42.659	7.170	1.00 51.84	AAAA
MOTA	1378	N			175					AAAA
MOTA	1379	CA	CYS	A	175	21.070	41.563	7.460	1.00 50.50	
ATOM	1380	С	CYS	A	175	21.302	40.994	8.849	1.00 48.47	AAAA
ATOM	1381	Ō			175	22.325	41.273	9.474	1.00 49.37	AAAA
							40.466	6.412	1.00 50.40	AAAA.
ATOM	1382	CB			175	21.232				AAAA
MOTA	1383	SG	CYS	; A	175	22.777	39.510	6.500	1.00 47.29	
ATOM	1384	N	TRE	A	176	20.341	40.212	9.330	1.00 46.37	AAAA
ATOM	1385	CA			176	20.435	39.577	10.644	1.00 44.37	AAAA
						19.112	39.689	11.394	1.00 41.90	AAAA
ATOM	1386	CB			176				1.00 41.21	AAAA
ATOM	1387	CG			176	18.812	41.052	11.859		
ATOM	1388	CD2	TRE	? A	176	19.248	41.645	13.082	1.00 43.34	AAAA
ATOM	1389	CE2	ייי איזיי	> A	176	18.750	42.963	13.106	1.00 41.70	AAAA
					176	20.016	41.188	14.166	1.00 43.05	AAAA -
ATOM	1390	CE3						11.209	1.00 40.48	AAAA
MOTA	1391	CDI			176	18.090	41.999			
MOTA	1392	NE1	. TRI	? A	176	18.046	43.152	11.949	1.00 41.05	AAAA
ATOM	1393	C7.2	TRE	- Δ	176	18.992	43.833	14.167	1.00 42.83	AAAA
	1394				176	20 259	42.056	15,223	1.00 42.53	AAAA
ATOM							43.364	15.214	1.00 43.04	<b>AAAA</b>
ATOM	1395	CH2			176	19.747				AAAA
ATOM	1396	С	TRI	? ₽	176	20.806	38.103			
MOTA	1397	0	TRI	? P	176	21.029	37.420	11.504	1.00 44.30	AAAA
ATOM	1398				177	20.868	37.624	9.275	1.00 45.37	AAAA
							36.240	9.018	1.00 46.76	AAAA
MOTA	1399				177	21.210				AAAA
ATOM	1400	C	GL:	Y	177	21.067	35.938	7.540	1.00 48.06	
ATOM	1401	0	GL	Y F	177	20.696	36.819	6.760	1.00 49.44	AAAA
MOTA	1402				178	21.361	34.702	7.148	1.00 47.29	AAAA
								5.751	1.00 46.38	AAAA
MOTA	1403	CA			178	21.249	34.301			AAAA
ATOM	1404	CB	AL	A A	178	21.667	32.851	5.601	1.00 46.86	
MOTA	1405	С	AL	A 7	178	19.809	34.480	5.278	1.00 46.62	AAAA
	1406				178	18.899	34.591	6.099	1.00 46.25	AAAA
ATOM								3.960		AAAA
MOTA	1407				179	19.607	34.512			AAAA
MOTA	1408	CA	GL.	Y /	179	18.270	34.660			
ATOM	1409		GI.	y )	A 179	17.779	36.092	3.283		AAAA
	1410				A 179	18.185	36.976		1.00 45.95	AAAA
ATOM							36.322			AAAA
MOTA	1411				A 180	16.904				AAAA
MOTA	1412	CA	GL	U Z	A 180	16.344	37.648			
ATOM	1413		GI.	U J	A 180	15.638	37.697	0.721		AAAA
	1414				A 180	16.614	37.588		1.00 51.83	AAAA
ATOM										AAAA
MOTA	1415				A 180	15.961	37.657			AAAA
ATOM	1416	OE	1 GL	U Z	A 180	16.663	37.369			
ATOM	1417				A 180	14.763	37.997	-1.891		AAAA
					A 180	15.367	37.965	_		AAAA
ATOM	1418									AAAA
MOTA	1419				A 180	15.015	39.122			AAAA
MOTA	1420	) N	GL	U	A 181	14.949	36.916	3.894	1.00 50.69	AAAA

ATOM	1421	CA	GLU A	181	14.020	37.039	5.000	1.00 51.35	AAAA
ATOM	1422	CB	GLU A		13.704	35.654	5.586	1.00 55.30	
ATOM	1423	CG	GLU A		13.165	34.601			AAAA
ATOM	1424	CD	GLU A				4.615	1.00 62.52	AAAA
ATOM	1425				14.094	34.307	3.424	1.00 67.51	AAAA
			GLU A		14.205	35.171	2.528	1.00 69.21	AAAA
ATOM	1426		GLU A		14.708	33.213	3.377	1.00 69.01	AAAA
ATOM	1427	С	GLU A	181	14.669	37.893	6.083	1.00 49.66	AAAA
ATOM	1428	0	GLU A	181	14.023	38.732	6.695	1.00 48.57	AAAA
MOTA	1429	N	ASN A	182	15.962	37.684	6.305	1.00 49.29	AAAA
ATOM	1430	CA	ASN A		16.671	38.406	7.353		
ATOM	1431	CB						1.00 48.94	AAAA
			ASN A		17.683	37.482	8.030	1.00 46.80	AAAA
ATOM	1432	CG	ASN A		17.024	36.287	8.686	1.00 46.43	AAAA
ATOM	1433	ODI	ASN A	182	16.083	36.436	9.461	1.00 45.40	AAAA
ATOM	1434	ND2	ASN A	182	17.514	35.095	8.378	1.00 45.47	AAAA
MOTA	1435	С	ASN A	182	17.357	39.701	6.976	1.00 49.37	AAAA
ATOM	1436	0	ASN A		18.221	40.169	7.715	1.00 50.26	AAAA
ATOM	1437	N	CYS A		16.990	40.287	5.841		
ATOM	1438	CA	CYS A		17.608			1.00 49.36	AAAA
ATOM	1439					41.551	5.453	1.00 48.77	AAAA
		c	CYS A		17.121	42.623	6.437	1.00 47.97	AAAA
MOTA	1440	0	CYS A		16.020	42.528	6.975	1.00 45.20	AAAA
MOTA	1441	CB	CYS A	183	17.208	41.952	4.028	1.00 49.97	AAAA
ATOM	1442	SG	CYS A	183	17.909	41.034	2.609	1.00 51.03	AAAA
ATOM	1443	N	GLN A	184	17.940	43.637	6.677	1.00 47.98	AAAA
ATOM	1444	CA	GLN A		17.550	44.699	7.596	1.00 49.96	
ATOM	1445	CB	GLN A		18.784				AAAA
ATOM	1446					45.470	8.099	1.00 46.32	AAAA
-		CG	GLN A		18.424	46.696	8.929	1.00 43.95	AAAA
ATOM	1447	CD	GLN A		19.615	47.327	9.641	1.00 44.04	AAAA
ATOM	1448	OE1	GLN A	184	20.742	47.311	9.137	1.00 40.59	AAAA
ATOM	1449	NE2	GLN A	184	19.359	47.914	10.811	1.00 40.47	AAAA
ATOM	1450	С	GLN A	184	16.550	45.680	6.969	1.00 51.88	AAAA
MOTA	1451	0	GLN A		16.774	46.217	5.882	1.00 52.14	
ATOM	1452	N	LYS A						AAAA
ATOM	1453				15.439	45.900	7.663	1.00 53.30	AAAA
		CA	LYS A		14.423	46.827	7.194	1.00 53.70	AAAA
ATOM	1454	CB	LYS A		13.039	46.399	7.683	1.00 51.76	AAAA
ATOM	1455	CG	LYS A		12.649	44.972	7.339	1.00 52.44	AAAA
ATOM	1456	CD	LYS A	185	11.220	44.681	7.802	1.00 52.65	AAAA
ATOM	1457	CE	LYS A	185	10.776	43.249	7.505	1.00 52.35	AAAA
ATOM	1458	NZ	LYS A	185	11.446	42.242	8.372	1.00 51.40	AAAA
MOTA	1459	С	LYS A		14.764	48.195	7.776	1.00 55.49	
ATOM	1460	Ō	LYS A		14.887	48.347			AAAA
ATOM	1461	N	LEU A				8.992	1.00 56.22	AAAA
ATOM	1462	CA			14.938	49.189	6.916	1.00 56.27	AAAA
			LEU A		15.242	50.521	7.402	1.00 57.96	AAAA
ATOM	1463	CB	LEU A		16.259	51.190	6.487	1.00 59.42	AAAA
ATOM	1464	CG	LEU A		17.571	50.391	6.473	1.00 61.16	AAAA
ATOM	1465		LEU A		18.679	51.190	5.794	1.00 61.15	AAAA
MOTA	1466	CD2	LEU A	186	17.973	50.058	7.903	1.00 60.70	AAAA
ATOM	1467	С	LEU A	186	13.962	51.331	7.491	1.00 58.85	AAAA
ATOM	1468	0	LEU A	186	13.117	51.266	6.598	1.00 59.85	AAAA
MOTA	1469	N	THR A		13.800	52.070		1.00 58.94	
ATOM	1470	CA	THR A						AAAA
ATOM	1471	CB			12.595	52.866	8.766	1.00 59.34	AAAA
			THR A		11.528	52.067	9.550	1.00 58.57	AAAA
ATOM	1472		THR A		12.079	51.620	10.797	1.00 56.88	AAAA
ATOM	1473		THR A		11.067	50.864	8.743	1.00 56.12	AAAA
ATOM	1474	С	THR A		12.805	54.218	9.452	1.00 60.71	AAAA
ATOM	1475	0	THR A	187	11.841	54.881	9.817	1.00 60.89	AAAA
ATOM	1476	N	LYS A	188	14.055	54.634	9.629	1.00 62.77	AAAA
ATOM	1477	CA	LYS A	188	14.326	55.918	10.266	1.00 65.00	AAAA
ATOM	1478	CB	LYS A		14.610	55.742	11.759	1.00 64.92	
MOTA	1479	CG	LYS A		14.955				AAAA
ATOM	1480	CD				57.058	12.463	1.00 64.48	AAAA
			LYS A		15.032	56.919	13.975	1.00 65.28	AAAA
ATOM	1481	CE	LYS A		16.260	56.134	14.415	1.00 65.77	AAAA
ATOM	1482	NZ	LYS A		17.526	56.842	14.092	1.00 64.08	AAAA
ATOM	1483	C	LYS A	188	15.498	56.648	9.636	1.00 67.11	AAAA
ATOM	1484	0	LYS A	188	15.692	57.843	9.869	1.00 68.04	AAAA
ATOM	1485	N	ILE A		16.272	55.932	8.830	1.00 68.43	AAAA
ATOM	1486	CA	ILE A		17.447	56.511	8.192		
ATOM	1487	CB	ILE A					1.00 69.36	AAAA
ATOM	1488				18.649	55.535	8.320	1.00 69.14	AAAA
			ILE A		18.419	54.303	7.451	1.00 68.39	AAAA
ATOM	1489		ILE A		19.948	56.231	7.923	1.00 69.30	AAAA
MOTA	1490		ILE A		21.149	55.306	7.956	1.00 70.21	AAAA
ATOM	1491	С	ILE A	189	17.206	56.858	6.718	1.00 70.16	AAAA
ATOM	1492	0	ILE A	189	17.929	57.670	6.142	1.00 68.96	AAAA
ATOM	1493	N	ILE A		16.184	56.248	6.121	1.00 71.88	AAAA
ATOM	1494	CA	ILE A		15.853	56.483	4.716	1.00 74.74	AAAA
ATOM	1495	CB	ILE A		15.758				
•			17		20.100	55.160	3.926	1.00 74.19	AAAA

ATOM	1496	CG2	ILE	А	190	17.074	54.413	3.993	1.00 74.42	AAAA
ATOM	1497		ILE			14.615	54.309	4.484	1.00 74.26	AAAA
			ILE			14.326	53.057	3.687	1.00 74.23	AAAA
ATOM	1498									
MOTA	1499	C .	ILE			14.512	57.196	4.554	1.00 76.92	AAAA
ATOM	1500	0	ILE			13.878	57.107	3.501	1.00 77.60	AAAA
ATOM	1501	N	CYS	Α	191	14.078	57.897	5.592	1.00 79.38	AAAA
ATOM	1502	CA	CYS	Α	191	12.801	58.595	5.537	1.00 82.10	AAAA
ATOM	1503	С	CYS			12.862	59.989	4.895	1.00 84.06	AAAA
	1504	ō	CYS			13.898	60.666	4.923	1.00 83.56	AAAA
ATOM										AAAA
ATOM	1505	CB	CYS			12.204	58.695	6.948	1.00 82.02	
ATOM	1506	SG	CYS	Α	191	11.804	57.090	7.718	1.00 80.87	AAAA
ATOM	1507	N	ALA	Α	192	11.737	60.401	4.311	1.00 85.73	AAAA
ATOM	1508	CA	ALA	Α	192	11.633	61.706	3.670	1.00 87.60	AAAA
ATOM	1509	CB	ALA	Α	192	10.274	61.852	2.983	1.00 86.72	AAAA
ATOM	1510	C	ALA			11.817	62.797	4.720	1.00 89.31	AAAA
			ALA			11.306	62.700	5.840	1.00 89.62	AAAA
ATOM	1511	0								AAAA
MOTA	1512	N	GLN			12.553	63.835	4.346	1.00 91.29	
MOTA	1513	CA	GLN	A	193	12.842	64.953	5.236	1.00 92.94	AAAA
MOTA	1514	CB	GLN	Α	193	13.539	66.063	4.441	1.00 93.67	AAAA
MOTA	1515	CG	GLN	Α	193 ·	14.759	65.571	3.665	1.00 94.57	AAAA
ATOM	1516	CD	GLN	Α	193	15.770	64.859	4.557	1.00 95.71	AAAA
ATOM	1517	OE1	GLN			16.390	65.476	5.424	1.00 96.74	AAAA
			GLN			15.933	63.554	4.350	1.00 94.81	AAAA
ATOM	1518									AAAA
MOTA	1519	С	GLN			11.609	65.507	5.954	1.00 93.26	
ATOM	1520	0	GLN	А	193	11.644	65.765	7.159	1.00 92.94	AAAA
ATOM	1521	N	GLN	Α	194	10.519	65.677	5.216	1.00 93.86	AAAA
ATOM	1522	CA	GLN	Α	194	9.291	66.212	5.790	1.00 94.06	AAAA
MOTA	1523	CB	GLN			8.269	66.523	4.687	1.00 95.44	AAAA
ATOM	1524	CG	GLN			8.846	67.076	3.387	1.00 97.99	AAAA
		CD	GLN			9.348	65.985	2.445	1.00 99.67	AAAA
MOTA	1525									
ATOM	1526		GLN			8.589	65.101	2.033	1.00 99.64	AAAA
MOTA	1527	NE2	GLN	A	194	10.630	66.048	2.096	1.00100.14	AAAA
ATOM	1528	С	GLN	Α	194	8.649	65.248	6.783	1.00 93.10	AAAA
ATOM	1529	0	GLN	Α	194	7.459	65.363	7.068	1.00 93.80	AAAA
ATOM	1530	N	CYS	Α	195	9.415	64.302	7.321	1.00 92.12	AAAA
ATOM	1531	CA	CYS			8.825	63.348	8.257	1.00 90.66	AAAA
	1532	C	CYS			9.418	63.302	9.650	1.00 89.87	AAAA
MOTA										AAAA
ATOM	1533	0	CYS			10.615	63.517	9.846	1.00 89.54	
ATOM	1534	CB	CYS			8.823	61.955	7.636	1.00 89.98	AAAA
MOTA	1535	SG	CYS	А	195	7.809	61.955	6.128	1.00 87.72	AAAA
ATOM	1536	N	SER	А	196	8.543	63.011	10.609	1.00 89.35	AAAA
ATOM	1537	CA	SER	Α	196	8.891	62.947	12.023	1.00 89.06	AAAA
ATOM	1538	CB	SER	Α	196	7.709	63.452	12.863	1.00 89.67	AAAA
ATOM	1539	OG	SER			6.531	62.695	12.618	1.00 89.57	AAAA
						9.305	61.562		100 <del></del> 88-36	
MOTA	1540				196					AAAA
ATOM	1541	0	SER			10.437	61.364	12.956	1.00 88.30	
MOTA	1542	N	GLY			8.384	60.607	12.444	1.00 87.34	AAAA
MOTA	1543	CA	GLY	Α	197	8.689	59.269	12.913	1.00 86.20	AAAA
ATOM	1544	С	GLY	Α	197	9.252	58.320	11.877	1.00 85.49	AAAA
ATOM	1545	0	GLY	Α	197	10.024	58.705	11.000	1.00 84.08	AAAA
ATOM	1546	N	ARG			8.867	57.056	11.996	1.00 85.91	AAAA
ATOM	1547	CA			198	9.329	56.037	11.073	1.00 86.14	AAAA
ATOM	1548	CB	ARG			9.044	54.629	11.615	1.00 86.72	AAAA
										AAAA
ATOM	1549	CG	ARG			9.138	54.459	13.138	1.00 88.24	AAAA
ATOM	1550	CD			198	10.533	54.697	13.727	1.00 87.94	
ATOM	1551	NE			198	11.553	53.810	13.179	1.00 88.14	AAA
ATOM	1552	CZ	ARG	A	198	12.744	53.608	13.735	1.00 88.34	AAAA
ATOM	1553	NH1	ARG	Α	198	13.066	54.222	14.865	1.00 88.13	AAAA
MOTA	1554	NH2	ARG	Α	198	13.626	52.813	13.147	1.00 88.54	AAAA
ATOM	1555	С			198	8.567	56.237	9.774	1.00 85.37	AAAA
ATOM	1556	Ö			198	7.661	57.067	9.695	1.00 85.03	AAAA
										AAAA
MOTA	1557	N			199	8.928	55.461	8.764	1.00 84.93	AAAA
MOTA	1558	CA			199	8.281	55.557	7.471	1.00 84.63	
ATOM	1559	С			199	8.296	54.204	6.777	1.00 85.40	AAAA
MOTA	1560	0	CYS	Α	199	9.128	53.349	7.083	1.00 85.40	AAAA
ATOM	1561	CB	CYS	Α	199	9.012	56.578	6.611	1.00 83.02	AAAA
ATOM	1562	SG			199	10.738	56.114	6.295	1.00 81.33	AAAA
ATOM	1563	N			200	7.363	54.019	5.848	1.00 86.17	AAAA
					200	7.251	52.785	5.083	1.00 86.89	AAAA
ATOM	1564	CA								AAAA
ATOM	1565	CB			200	5.875	52.710	4.416	1.00 88.04	
ATOM	1566	CG			200	4.721	52.531	5.390	1.00 90.47	AAAA
ATOM	1567	CD			200	3.354	52.550	4.696	1.00 92.88	AAAA
ATOM	1568	NĖ	ARG	Α	200	3.339	51.753	3.471	1.00 95.81	AAAA
ATOM	1569	CZ	ARG	Α	200	3.566	52.250	2.257	1.00 97.36	AAAA
ATOM	1570		ARG			3.818	53.544	2.113	1.00 98.09	AAAA

ATOM	1571	NH2	ARG A	200	3.557	51.459	1.189	1 00	97.22	AAAA
ATOM	1572	С	ARG A							
					8.351	52.749	4.024		86.99	AAAA
ATOM	1573	0	ARG A	200	9.012	51.733	3.834	1.00	86.56	AAAA
ATOM	1574	N	GLY A	201	8.534	53.875	3.344	1.00	87.59	AAAA
ATOM	1575	CA	GLY A	201	9.553	53.991	2.319			
ATOM	1576								89.04	AAAA
		С	GLY A		10.143	55.385	2.387	1.00	90.54	AAAA
ATOM	1577	0	GLY A	201	10.097	56.017	3.441	1.00	91.78	AAAA
ATOM	1578	N	SER A	202	10.698	55.878	1.283		91.26	
ATOM	1579	CA								AAAA
			SER A		11.271	57.222	1.280	1.00	91.46	AAAA
ATOM	1580	CB	SER A	202	12.621	57.236	0.561	1.00	91.76	AAAA
ATOM	1581	OG	SER A	202	13.203	58.528	0.622		90.90	AAAA
MOTA	1582	C	SER A							
					10.313	58.186	0.595		91.52	AAAA
ATOM	1583	0	SER A	202	10.626	59.358	0.391	1.00	90.79	AAAA
ATOM	1584	N	SER A	203	9.139	57.672	0.245	1.00	92.09	AAAA
MOTA	1585	CA	SER A		8.111	58.466	-0.410		92.72	
ATOM	1586	СВ								AAAA
			SER A		7.112	57.541	-1.106	1.00	92.32	AAAA
MOTA	1587	OG	SER A	203	5.919	58.231	-1.433	1.00	92.10	AAAA
ATOM	1588	С	SER A	203	7.382	59.353	0.597	1.00	93.08	AAAA
ATOM	1589	0	SER A	203	6.991	58.895	1.671			
									93.46	AAAA
MOTA	1590	N	PRO A		7.197	60.641	0.263	1.00	93.09	AAAA
ATOM	1591	CD	PRO A	204	7.750	61.347	-0.908	1.00	92.98	AAAA
ATOM	1592	CA	PRO A	204	6.507	61.580	1.154		92.47	AAAA
MOTA	1593	CB	PRO A							
					6.468	62.863	0.330		92.49	AAAA
MOTA	1594	CG	PRO A	204	7.749	62.790	-0.444	1:00	92.54	AAAA
ATOM	1595	С	PRO A	204	5.113	61.098	1.558	1.00	91.59	AAAA
ATOM	1596	0	PRO A	204	4.544	61.575	2.539		91.49	
ATOM										AAAA
	1597	N	SER A		4.570	60.153	0.799	1.00	90.63	AAAA
ATOM	1598	CA	SER A	205	3.247	59.607	1.087	1.00	90.31	AAAA
ATOM	1599	CB	SER A	205	2.504	59.305	-0.215		90.24	AAAA
ATOM	1600	OG	SER A							
					2.408	60.458	-1.028		91.83	AAAA
MOTA	1601	С	SER A	205	3.359	58.320	1.896	1.00	89.65	AAAA
ATOM	1602	0	SER A	205	2.350	57.699	2.236		89.68	AAAA
ATOM	1603	N	ASP A		4.590	57.933	2.211			
ATOM									88.61	AAAA
	1604	CA	ASP A		4.847	56.699	2.945	1.00	87.27	AAAA
ATOM	1605	CB	ASP A	206	5.917	55.892	2.199	1.00	87.91	AAAA
ATOM	1606	CG	ASP A	206	5.472	55.490	0.804		89.25	AAAA
ATOM	1607		ASP A		4.949	56.360				
							0.074		89.73	AAAA
ATOM	1608		ASP A		5.645	54.308	0.432	1.00	89.76	AAAA
ATOM	1609	С	ASP A	206	5.259	56.863	4.408	1.00	85.32	AAAA
MOTA	1610	0	ASP A	206	5.761	55.921	5.013		85.03	AAAA
ATOM	1611	N	CYS A							
					5.041	58.040	4.986	1.00	83.28	AAAA
MOTA	1612	CA	CYS A		5.418	58.258	6.378	1.00	80.61	AAAA
ATOM	1613	С	CYS A	207	4.397	57.817	7.406	1.00	77.76	AAAA
ATOM	1614	0	CYS A		3.191	57.806	7.154		77.94	
ATOM	1615									AAAA
		CB	CYS A		5.797	59.715	6.600	100	81.69	AAAA
MOTA	1616	SG	CYS A	207	7.379	60.013	5.782	1.00	85.26	AAAA
ATOM	1617	N	CYS A	208	4.905	57.452	8.577	1 00	73.98	AAAA
ATOM	1618	CA	CYS A		4.076	56.965				
ATOM							9.664		70.13	AAAA
	1619	С	CYS A		3.626	58.054	10.621	1.00	68.96	AAAA
ATOM	1620	0	CYS A	208	4.289	59.082	10.772	1.00	67.69	AAAA
ATOM	1621	CB	CYS A	208	4.843	55.907	10.447		67.88	AAAA
MOTA	1622	SG	CYS A		5.550	54.573			63.42	
ATOM							9.440			Aaaa
	1623	И	HIS A		2.494	57.812	11.273	1.00	67.78	AAAA
ATOM	1624	CA	HIS A		1.963	58.759	12.235	1.00	68.16	AAAA
ATOM	1625	CB	HIS A	209	0.621	58.273	12.766		69:93	AAAA
MOTA	1626	CG	HIS A		-0.036	59.244			72.49	
							13.688			AAAA
ATOM	1627		HIS A		0.031	60.594	13.751	1.00	73.30	AAAA
ATOM	1628	ND1	HIS A	209	-0.863	58.850	14.718	1.00	73.57	AAAA
ATOM	1629	CE1	HIS A	209	-1.273	59.917	15.379	1.00	74.42	AAAA
ATOM	1630		HIS A		-0.745	60.988				
							14.813		74.80	AAAA
MOTA	1631	С	HIS A		2.977	58.871	13.373	1.00	67.91	AAAA
MOTA	1632	0	HIS A	209	3.673	57.904	13.681	1.00	67.86	AAAA
MOTA	1633	N	ASN A		3.057	60.042	14.000		67.56	AAAA
ATOM	1634	CA								
			ASN A		4.033	60.269	15.065		66.77	AAAA
MOTA	1635	CB	ASN A	210	3.866	61.674	15.659	1.00	68.84	AAAA
MOTA	1636	CG	ASN A	210	2.619	61.801	16.519		71.33	AAAA
ATOM	1637		ASN A		2.601	62.542				
							17.505		71.67	AAAA
ATOM	1638		ASN A		1.565	61.082	16.146	1.00	71.40	AAAA
MOTA	1639	С	ASN A	210	4.015	59.242	16.199	1.00	65.16	AAAA
ATOM	1640	0	ASN A		5.060	58.951	16.792		64.68	AAAA
ATOM	1641	N								
			GLN A		2.837	58.698	16.500		62.20	AAAA
ATOM	1642	CA	GLN A		2.699	57.720	17.574	1.00	59.93	AAAA
ATOM	1643	CB	GLN A	211	1.260	57.705	18.094		58.62	AAAA
ATOM	1644	CG	GLN A		0.858	58.979				
ATOM	1645	CD					18.801		56.96	AAAA
ALON	1040	CD	GLN A	411	1.778	59.324	19.946	1.00	56.29	AAAA

ATOM	1646	OE1	GLN A 211	1.788	58.651	20.972	1.00 56.69	AAAA
				2.564	60.378	19.776	1.00 56.65	AAAA
ATOM	1647		GLN A 211				1.00 59.67	AAAA
MOTA	1648	С	GLN A 211	3.104	56.307	17.172		
ATOM	1649	0	GLN A 211	2.858	55.348	17.901	1.00 59.74	AAAA
ATOM	1650	N	CYS A 212	3.721	56.174	16.008	1.00 59.14	AAAA
ATOM	1651	CA	CYS A 212	4.148	54.869	15.549	1.00 57.65	AAAA
	1652	c.	CYS A 212	5.583		15.939	1.00 57.76	AAAA
ATOM						15.941	1.00 55.84	AAAA
ATOM	1653	0	CYS A 212	6.418				
ATOM	1654	CB	CYS A 212	4.035		14.040	1.00 57.76	AAAA
ATOM	1655	SG	CYS A 212	2.361	54.571	13.375	1.00 56.57	AAAA
ATOM	1656	N	ALA A 213	5.864	53.357	16.262	1.00 58.73	AAAA
ATOM	1657	CA	ALA A 213	7.206		16.643	1.00 59.33	AAAA
				7.220		18.098	1.00 59.23	AAAA
ATOM	1658	CB	ALA A 213				1.00 59.51	AAAA
ATOM	1659	С	ALA A 213	7.643		15.732		
MOTA	1660	0	ALA A 213	6.829	50.959	15.361	1.00 58.53	AAAA
ATOM	1661	N	ALA A 214	8.921	51.806	15.361	1.00 60.41	AAAA
ATOM	1662	CA	ALA A 214	9.493	50.773	14.499	1.00 62.54	AAAA
	1663	СВ	ALA A 214	9.047		14.968	1.00 63.79	AAAA
ATOM				9.133		13.030	1.00 63.20	AAAA
ATOM	1664	С	ALA A 214					AAAA
ATOM	1665	0	ALA A 214	10.010		12.177	1.00 63.43	
ATOM	1666	N	GLY A 215	7.842	50.890	12.733	1.00 62.95	AAAA
ATOM	1667	CA	GLY A 215	7.404	51.052	11.364	1.00 63.29	AAAA
ATOM	1668	С	GLY A 215	5.900	51.084	11.302	1.00 63.67	AAAA
		Ö	GLY A 215	5.242		12.336	1.00 63.66	AAAA
MOTA	1669					10.095	1.00 65.17	AAAA
ATOM	1670	N	CYS A 216	5.351				
ATOM	1671	CA	CYS A 216	3.906		9.937	1.00 66.54	AAAA
ATOM	1672	С	CYS A 216	3.441	50.534	8.596	1.00 68.69	AAAA
MOTA	1673	0	CYS A 216	4.210	50.485	7.642	1.00 69.58	AAAA
ATOM	1674	СВ	CYS A 216	3.414	52.485	10.089	1.00 65.18	AAAA
			CYS A 216	3.911		8.740	1.00 63.25	AAAA
ATOM	1675	SG				8.535	1.00 71.56	AAAA
MOTA	1676	N	THR A 217	2.172				
ATOM	1677	CA	THR A 217	1.567		7.306	1.00 75.38	AAAA
ATOM	1678	CB	THR A 217	0.890	48.291	7.518	1.00 76.72	AAAA
ATOM	1679	OG1	THR A 217	-0.150	48.417	8.495	1.00 79.07	AAAA
ATOM	1680		THR A 217	1.90	47.263	7.996	1.00 78.15	AAAA
		C	THR A 217	0.50		6.902	1.00 77.29	AAAA
ATOM	1681					6.856	1.00 78.07	AAAA
MOTA	1682	0	THR A 217	-0.68				AAAA
ATOM	1683	N	GLY A 218	0.94		6.622	1.00 78.92	
MOTA	1684	CA	GLY A 218	0.01	52.948	6.247	1.00 80.90	AAAA
ATOM	1685	С	GLY A 218	0.43	54.291	6.808	1.00 82.34	AAAA
ATOM	1686	0	GLY A 218	1.40	54.364	7.567	1.00 82.58	AAAA
ATOM	1687	N	PRO A 219	-0.26		6.464	1.00 83.59	AAAA
						5.447	1.00 83.73	AAAA
MOTA	1688	CD	PRO A 219	-1.33				AAAA
ATOM	1689	CA	PRO A 219	0.06		6.948	1.00 84.18	
ATOM	1690	CB	PRO A 219	-0.35	57.592	5:787	1.00 83.61	AAAA
MOTA	1691	CG	PRO A 219	-1.66	56.938	5.417	1.00 83.83	AAAA
ATOM	1692	C	PRO A 219	-0.66	2 57.116	8.226	1.00 84.40	AAAA
	1693	ō	PRO A 219	-0.39		8.794	1.00 83.48	AAAA
ATOM				-1.58			1.00 85.02	AAAA
MOTA	1694	N	ARG A 220				1.00 85.98	AAAA
ATOM	1695	CA	ARG A 220	-2.35		9.861		AAAA
MOTA	1696	CB	ARG A 220	-3.82			1.00 87.35	
MOTA	1697	CG	ARG A 220	-4.55	3 57.247	8.749	1.00 90.79	AAAA
ATOM	1698	CD	ARG A 220	-5.98	3 56.808	8.474	1.00 93.70	AAAA
ATOM	1699	NE	ARG A 220	-6.80	2 57.910	7.967	1.00 96.20	AAAA
	1700	CZ	ARG A 220	-8.04			1.00 97.11	AAAA
ATOM				-8.63			1.00 97.80	AAAA
ATOM	1701		ARG A 220					AAAA
MOTA	1702	NH2	2 ARG A 220	-8.70			1.00 97.00	
ATOM	1703	С	ARG A 220	-1.91	9 56.050	11.212	1.00 85.73	AAAA
ATOM	1704	0	ARG A 220	-0.89	3 55.377	11.349	1.00 85.37	AAAA
ATOM	1705	N	GLU A 221	-2.74	2 56.370	12.204	1.00 84.52	AAAA
		CA	GLU A 221	-2.55			1.00 83.32	AAAA
ATOM	1706						1.00 84.93	AAAA
MOTA	1707	CB	GLU A 221	-3.51			_	AAAA
MOTA	1708	CG	GLU A 221	-3.68			1.00 87.60	
ATOM	1709	CD	GLU A 221	-4.89	2 58.967	14.484	1.00 88.94	AAAA
ATOM	1710	OE1	GLU A 221	-5.15	9 60.110	14.043	1.00 89.17	AAAA
ATOM	1711		GLU A 221	-5.57	0 58.400	15.370	1.00 89.48	AAAA
		C	GLU A 221	-2.79			1.00 81.68	AAAA
MOTA	1712							AAAA
ATOM	1713	0	GLU A 221	-1.97				AAAA
ATOM	1714	N	SER A 222	-3.93				
ATOM	1715	CA	SER A 222	-4.27				AAAA
MOTA	1716	CB	SER A 222	-5.74	2 52.386			AAAA
ATOM	1717	OG	SER A 222	-5.98				AAAA
ATOM	1718	·c	SER A 222	-3.38				AAAA
			SER A 222					AAAA
MOTA	1719			_				AAAA
ATOM	1720	N	ASP A 223	-2.37	9 52.381	11.997	1.00 12.01	

MOTA	1721	CA	ASP A	223	-1.502	51.661	11.085	1.00 69.73	AAAA
ATOM	1722	СВ	ASP A				9.734	1.00 70.34	AAAA
					-1.481	52.382			
MOTA	1723	CG	ASP A	223	-2.851	52.434	9.090	1.00 69.06	AAAA
ATOM	1724	OD1	ASP A	223	-3.400	51.359	8.776	1.00 69.66	AAAA
ATOM	1725	OD2	ASP A	223	-3.383	53.545	8.910	1.00 68.91	AAAA
	1726								
ATOM		C	ASP A		-0.083	51.439	11.584	1.00 67.62	AAAA
ATOM	1727	0	ASP A	223	0.825	51.162	10.795	1.00 66.02	AAAA
ATOM	1728	N	CYS A	224	0.104	51.544	12.896	1.00 65.07	AAAA
ATOM	1729	CA	CYS A		1.419			1.00 61.90	AAAA
						51.344	13.485		
MOTA	1730	С	CYS A	224	1.708	49.860	13.703	1.00 60.87	AAAA
ATOM	1731	0	CYS A	224	0.787	49.046	13.788	1.00 59.18	AAAA
ATOM	1732	CB	CYS A		1.510	52.036	14.839	1.00 60.46	AAAA
ATOM	1733	SG	CYS A		1.249	53.831	14.890	1.00 59.85	AAAA
ATOM	1734	N	LEU A	225	2.993	49.520	13.791	1.00 59.99	AAAA
ATOM	1735	CA	LEU A	225	3.405	48.146	14.056	1.00 60.05	AAAA
ATOM	1736	CB	LEU A						
					4.840	47.909	13.583	1.00 58.86	AAAA
ATOM	1737	CG	LEU A	225	5.031	47.825	12.068	1.00 58.09	AAAA
ATOM	1738	CD1	LEU A	225	6.499	47.544	11.749	1.00 54.61	AAAA
ATOM	1739		LEU A		4.112	46.733	11.503	1.00 55.73	AAAA
ATOM	1740	С	LEU A	225	3.316	47.981	15.569	1.00 60.79	AAAA
ATOM	1741	0	LEU A	225	2.700	47.037	16.075	1.00 60.05	AAAA
ATOM	1742	N	VAL A	226	3.945	48.917	16.279	1.00 61.36	AAAA
ATOM	1743	CA	VAL A				17.739		
					3.922	48.953		1.00 61.26	AAAA
MOTA	1744	CB	VAL A		5.242	48.446	18.371	1.00 60.46	AAAA
ATOM	1745	CG1	VAL A	226	5.468	47.004	17.989	1.00 62.20	AAAA
ATOM	1746		VAL A		6.410	49.306	17.931	1.00 60.22	AAAA
MOTA	1747	С	VAL A		3.710	50.411	18.126	1.00 60.76	AAAA
ATOM	1748	0	VAL A	. 226	4.170	51.317	17.422	1.00 60.76	AAAA
ATOM	1749	N	CYS A	227	3.007	50.628	19.236	1.00 60.32	AAAA
ATOM	1750	CA	CYS A		2.714		19.717	1.00 59.58	
						51.973			AAAA
ATOM	1751	С	CYS A	. 227	3.871	52.638	20.434	1.00 61.42	AAAA
ATOM	1752	0	CYS A	. 227	4.622	51.997	21.167	1.00 62.53	AAAA
ATOM	1753	CB	CYS A	227	1.495	51.954	20.635	1.00 57.59	AAAA
ATOM	1754	SG	CYS A		-0.075	51.771	19.736	1.00 54.82	AAAA
MOTA	1755	N	ARG A	. 228	4.005	53.938	20.206	1.00 62.94	AAAA
ATOM	1756	CA	ARG A	228	5.055	54.738	20.815	1.00 64.04	AAAA
ATOM	1757	CB	ARG A		5.085	56.119	20.160	1.00 67.31	AAAA
ATOM	1758	CG	ARG A		5.779	57.184	20.976	1.00 71.97	AAAA
MOTA	1759	CD	ARG A	228	7.275	57.071	20.893	1.00 73.93	AAAA
ATOM	1760	NE	ARG A	228	7.749	57.348	19.545	1.00 76.17	AAAA
ATOM	1761	CZ	ARG A						
					9.023	57.570	19.243	1.00 78.34	AAAA
ATOM	1762	NH1	ARG A	228	9.946	57.548	20.199	1.00 78.75	AAAA
MOTA	1763	NH2	ARG A	228	9.374	57.812	17.987	1.00 79.53	AAAA
ATOM	1764	C	ARG A	228	4.769	54.865	22.302	1.00 62.78	AAAA
ATOM	1765	0	ARG A		5.592	54. <b>5</b> 09	23.133	1.00 62:43	AAAA
MOTA	1766	N	LYS A	229	3.591	55.375	22.631	1.00 62.10	AAAA
ATOM	1767	CA	LYS F	229	3.199	55.531	24.019	1.00 61.40	AAAA
ATOM	1768	CB	LYS A		2.840	56.987	24.317	1.00 61.42	AAAA
ATOM	1769	CG	LYS F		4.037		24.448	1.00 61.77	AAAA
ATOM	1770	CD	LYS A	229	3.611	59.300	24.881	1.00 64.42	AAAA
ATOM	1771	CE	LYS A	229	4.819	60.224	25.056	1.00 66.45	AAAA
ATOM	1772	NZ	LYS A		4.433	61.616	25.426	1.00 63.91	AAAA
ATOM									
	1773	С	LYS F		2.017	54.634	24.350	1.00 61.45	AAAA
ATOM	1774	0	LYS A	1 229	2.168	53.425	24.515	1.00 62.61	AAAA
ATOM	1775	N	PHE A	230	0.835	55.223	24.438	1.00 60.48	AAAA
MOTA	1776	CA	PHE A		-0.350	54.456	24.770	1.00 60.22	AAAA
ATOM	1777	CB	PHE A		-1.414	55.364	25.389	1.00 59.88	AAAA
ATOM	1778	CG	PHE A	230	-1.049	55.881	26.742	1.00 58.46	AAAA
ATOM	1779	CD1	PHE A	230	-0.020	56.803	26.893	1.00 58.93	AAAA
ATOM	1780		PHE A		-1.716	55.432	27.868	1.00 57.18	AAAA
MOTA	1781		PHE A		0.342	57.268	28.147	1.00 57.43	AAAA
ATOM	1782	CE2	PHE A	3 230	-1.363	55.890	29.124	1.00 58.53	AAAA
ATOM	1783	CZ	PHE A		-0.329	56.812	29.263	1.00 58.08	AAAA
ATOM	1784								
		С	PHE A		-0.943	53.720	23.589	1.00 60.46	AAAA
MOTA	1785	0	PHE A	1 230	-0.646	54.014	22.441	1.00 59.07	AAAA
ATOM	1786	N	ARG A	231	-1.787	52.750	23.901	1.00 62.80	AAAA
ATOM	1787	CA	ARG A		-2.458	51.943	22.905	1.00 65.85	AAAA
ATOM	1788	CB	ARG A		-1.908	50.518	22.913	1.00 69.01	AAAA
ATOM	1789	CG	ARG A	A 231	-2.718	49.542	22.084	1.00 73.82	AAAA
MOTA	1790	CD	ARG A		-2.222	48.116	22.259	1.00 78.04	AAAA
ATOM	1791	NE							AAAA
			ARG A		-3.131	47.150	21.646	1.00 81.93	
ATOM	1792	cz	ARG A		-4.396	46.969	22.021	1.00 83.86	AAAA
ATOM	1793	NH1	ARG A	231	-4.915	47.689	23.012	1.00 83.60	AAAA
ATOM	1794		ARG A		-5.145	46.063	21.402	1.00 84.73	AAAA
ATOM	1795	С	ARG A	7 7 2 T	-3.926	51.933	23.281	1.00 67.00	AAAA

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ATOM	1796	0	ARG	Α	231	-4.298	51.566	24.401	1.00 66.52	AAAA
ATOM	1797	N	ASP			-4.755	52.351	22.336	1.00 68.45	AAAA
MOTA	1798	CA	ASP	Α	232	-6.193	52.424	22.533	1.00 69.70	AAAA
ATOM	1799	CB	ASP	Α	232	-6.647	53.880	22.356	1.00 70.04	AAAA
ATOM	1800	CG	ASP			-8.090	54.105	22.759	1.00 70.68	AAAA
ATOM	1801		ASP			-8.525	55.277	22.749	1.00 70.15	AAAA
ATOM	1802		ASP			-8.786	53.119	23.084	1.00 71.94	AAAA
ATOM	1803	C	ASP			-6.822	51.520	21.479	1.00 70.28	AAAA
ATOM	1804	0	ASP			-6.750	51.812	20.285	1.00 71.25	АААА АААА
ATOM	1805	N			233	-7.422	50.421	21.923	1.00 70.37	AAAA
ATOM	1806 1807	CA CB			233 233	-8.043 -9.355	49.469 50.030	21.013 20.470	1.00 70.23	AAAA
ATOM ATOM	1808	CG			233	-10.405	50.286	21.537	1.00 72.92	AAAA
ATOM	1809	CD			233	-10.814	49.030	22.285	0.01 73.07	AAAA
ATOM	1810		GLU			-11.655	49.133	23.202	0.01 73.49	AAAA
ATOM	1811		GLU			-10.299	47.940	21.958	0.01 73.49	AAAA
ATOM	1812	С	GLU	Α	233	-7.090	49.162	19.864	1.00 69.84	AAAA
ATOM	1813	0	GLU	Α	233	-6.247	48.279	19.976	1.00 70.56	AAAA
ATOM	1814	N	ALA	Α	234	-7.216	49.900	18.766	1.00 69.15	AAAA
ATOM	1815	CA	ALA	Α	234	-6.356	49.693	17.605	1.00 67.73	AAAA
ATOM	1816	CB			234	-7.182	49.174	16.435	1.00 67.46	AAAA
MOTA	1817	С			234	-5.619	50.966	17.193	1.00 67.24	AAAA
ATOM	1818	0			234	-5.170	51.082	16.056	1.00 67.51	AAAA
ATOM	1819	N			235	-5.478	51.911	18.117	1.00 66.50	AAAA AAAA
ATOM	1820	CA			235	-4.803	53.169	17.816	1.00 65.61 1.00 66.47	AAAA
ATOM	1821 1822	CB			235 235	-5.808 -6.784	54.346 54.198	17.875 16.836	1.00 66.47	AAAA
MOTA MOTA	1823	OG1	THR			-5.096	55.674	17.692	1.00 67.67	AAAA
ATOM	1824	C			235	-3.646	53.462	18.773	1.00 64.34	AAAA
ATOM	1825	Ö			235	-3.594	52.916	19.875	1.00 65.64	AAAA
ATOM	1826	N			236	-2.715	54.311	18.340	1.00 60.70	AAAA
ATOM	1827	CA	CYS	Α	236	-1.583	54.703	19.176	1.00 58.30	AAAA
MOTA	1828	С	CYS	Α	236	-1.749	56.170	19.531	1.00 57.11	AAAA
MOTA	1829	0	CYS	Α	236	-1.667	57.036	18.661	1.00 56.82	AAAA
MOTA	1830	CB	CYS	Α	236	-0.242	54.532	18.448	1.00 58.81	AAAA
MOTA	1831	SG			236	0.272	52.830	18.043	1.00 56.82	AAAA
ATOM	1832	N			237	-1.973	56.449	20.810	1.00 56.30	AAAA
ATOM	1833	CA			237	-2.160	57.819	21.267	1.00 54.56	AAAA AAAA
MOTA	1834	CB			237	-3.527 -4.661	57.950 57.653	21.929 20.985	1.00 53.84	AAAA
ATOM ATOM	1835 1836	CG			237 237	-5.984	57.688	21.699	1.00 54.20	AAAA
ATOM	1837	CE			237	-7.143	57.452	20.730	1.00 59.61	AAAA
ATOM	1838	NZ			237	-7.073	56.121	20.067	1.00 59.70	AAAA
ATOM	1839	C			237	-1.072	58.277	22.224	1.00 53.56	AAAA
MOTA	1840	0	LYS	Α	237	·· -0.510	57.484	22.964	1:00 53.96	AAAA
MOTA	1841	N	ASP	Α	238	-0.771	59.566	22.198	1.00 53.34	AAAA
MOTA	1842	CA			238	0.243	60.120	23.077	1.00 53.04	AAAA
MOTA	1843	CB			238	0.608	61.532	22.647	1.00 53.71	AAAA
MOTA	1844	CG			238	1.700	62.117	23.499	1.00 57.42	AAAA AAAA
MOTA	1845				238	2.846	61.620 63.063	23.417 24.263	1.00 58.51 1.00 59.40	AAAA
MOTA	1846 1847	C C			238 238	1.413 -0.265	60.152	24.203	1.00 52.51	AAAA
ATOM ATOM	1848	Ö			238	0.517	60.228	25.457	1.00 52.92	AAAA
ATOM	1849	N			239	-1.585	60.113	24.658	1.00 51.86	AAAA
ATOM	1850	CA			239	-2.233	60.119	25.967	1.00 53.06	AAAA
ATOM	1851	CB			239	-2.328	61.545	26.580	1.00 54.14	AAAA
MOTA	1852	OG1			239	-1.018	62.110	26.710	1.00 55.47	AAAA
ATOM	1853	CG2	THR	A	239	-2.967	61.487	27.963	1.00 55.03	AAAA
MOTA	1854	C	THR	A	239	-3.640	59.607	25.739	1.00 52.95	AAAA
MOTA	1855	0			239	-4.205	59.824	24.673	1.00 53.57	AAAA
MOTA	1856	N			240	-4.208	58.921	26.724	1.00 53.56	AAAA
MOTA	1857	CA			240	-5.560	58.405	26.565	1.00 54.88	AAAA
ATOM	1858	C			240	-6.585	59.537	26.552	1.00 56.05 1.00 57.09	AAAA AAAA
ATOM	1859	O			240	-6.399 -5.012	60.578	27.194 27.695	1.00 54.61	AAAA
ATOM	1860 1861	CB SG			240	-5.912 -4.946	57.434 55.895	27.726	1.00 54.55	AAAA
MOTA MOTA	1862	N			240	-7.681	59.353	25.805	1.00 54.66	AAAA
ATOM	1863	CD			241	-7.979	58.227	24.911	1.00 54.86	AAAA
ATOM	1864	CA			241	-8.730	60.371	25.731	1.00 54.01	AAAA
ATOM	1865	CB			241	-9.735	59.760	24.753	1.00 53.92	AAAA
ATOM	1866	CG			241	-9.474	58.282	24.855	1.00 55.64	AAAA
MOTA	1867	C			241	-9.331	60.626	27.111	1.00 52.89	AAAA
ATOM	1868	0			241	-9.867	59.713	27.734	1.00 53.84	AAAA
ATOM	1869	N			242	-9.255	61.877	27.600	1.00 51.54	AAAA
MOTA	1870	CD	PRC	) A	242	-8.726	63.060	26.906	1.00 49.64	AAAA

ATOM	1871	CA	PRO	Α	242	-9.785	62.253	28.912	1.00 49.70	AAAA
MOTA	1872	CB	PRO	Α	242	-9.528	63.754	28.973	1.00 48.28	AAAA
ATOM	1873	CG	PRO	Α	242	-8.382	63.948	28.059	1.00 49.50	AAAA
ATOM	1874	c	PRO			-11.258	61.940	29.050	1.00 51.05	AAAA
ATOM	1875	ō	PRO			-11.978	61.849	28.059	1.00 50.69	AAAA
ATOM	1876	N	LEU			-11.701	61.782	30.292	1.00 52.78	AAAA
ATOM	1877	CA	LEU			-13.101	61.502	30.579	1.00 53.84	AAAA
MOTA	1878	CB	LEU			-13.241	60.867	31.963	1.00 55.15	AAAA
ATOM	1879	CG	LEU	Α	243	-12.465	59.583	32.237	1.00 57.26	AAAA
MOTA	1880	CD1	LEU	A	243	-12.760	59.142	33.657	1.00 58.83	AAAA
ATOM	1881	CD2	LEU	A	243	-12.863	58.497	31.245	1.00 57.07	AAAA
ATOM	1882	С	LEU	Α	243	-13.888	62.807	30.551	1.00 53.46	AAAA
ATOM	1883	0			243	-15.116	62.806	30.497	1.00 54.25	AAAA
ATOM	1884	N	MET			-13.166	63.918	30.609	1.00 52.58	AAAA
ATOM	1885	CA	MET			-13.776	65.236	30.590	1.00 53.34	AAA
MOTA	1886	CB	MET			-13.895	65.795	32.018	1.00 54.69	AAAA
MOTA	1887	CG	MET			-15.022	65.185	32.849	1.00 57.09	AAAA
ATOM	1888	SD	MET	Α	244	-15.267	65.986	34.452	1.00 61.40	AAAA
ATOM	1889	CE	MET	Α	244	-16.008	64.612	35.415	1.00 56.61	AAAA
ATOM	1890	С	MET	Α	244	-12.958	66.195	29.728	1.00 53.36	AAAA
ATOM	1891	0			244	-11.730	66.098	29.657	1.00 54.33	AAAA
ATOM	1892	N			245	-13.646	67.110	29.056	1.00 52.53	AAAA
ATOM	1893	CA			245	-12.981	68.100	28.226	1.00 51.49	AAAA
ATOM	1894	CB			245	-13.320	67.893	26.754	1.00 51.39	AAAA
ATOM	1895	CG			245	-12.686	66.667	26.094	1.00 53.64	AAAA
ATOM	1896	CD1	LEU	Α	245	-13.435	66.349	24.814	1.00 53.73	AAAA
ATOM	1897	CD2	LEU	Α	245	-11.197	66.912	25.830	1.00 50.89	AAAA
ATOM	1898	С	LEU	Α	245	-13.436	69.478	28.662	1.00 51.38	AAAA
ATOM	1899	0	LEU	Α	245	-14.595	69.679	29.021	1.00 51.07	AAAA
MOTA	1900	N			246	-12.507	70.420	28.651	1.00 50.18	AAAA
ATOM	1901	CA			246	-12.810	71.788	29.020	1.00 50.73	AAAA
ATOM	1902	CB			246	-11.519	72.529	29.346	1.00 47.94	AAAA
MOTA	1903	CG			246	-11.699	73.955	29.790	1.00 45.73	AAAA
MOTA	1904	CD1	TYR	Α	246	-12.265	74.251	31.032	1.00 44.42	AAAA
MOTA	1905	CE1	TYR	Α	246	-12.325	75.562	31.498	1.00 43.30	AAAA
MOTA	1906	CD2	TYR	Α	246	-11.212	75.009	29.013	1.00 45.57	AAAA
ATOM	1907	CE2	TYR	Α	246	-11.266	76.326	29.466	1.00 42.93	AAAA
ATOM	1908	CZ			246	-11.816	76.592	30.711	1.00 43.68	AAAA
ATOM	1909	ОН			246	-11.804	77.877	31.193	1.00 44.04	AAAA
ATOM	1910	C			246	-13.481	72.443	27.816	1.00 52.10	AAAA
MOTA	1911	0			246	-13.133	72.147	26.666	1.00 53.56	AAAA
MOTA	1912	N			247	-14.442	73.325	28.080	1.00 52.10	AAAA
ATOM	1913	CA			247	-15.151	74.033	27.022	1.00 50.83	AAAA
ATOM	1914	CB			247	-16.650	73.943	27.262	1.00 50.18	AAAA
ATOM	1915	CG	ASN	A	247	-17.450	74.353	26.056	1.00 49.02	AAAA
ATOM	1916	OD1	ASN	Α	247	-17.138	75.347	25.408	1.00 47.60	AAAA
MOTA	1917	ND2	ASN	Α	247	-18.496	73.591	25.748	1.00 47.20	AAAA
ATOM	1918	C			247	-14.714	75.499	27.038	1.00 50.54	AAAA
ATOM	1919	Õ			247	-15.081			1.00 51.49	AAAA
										AAAA
ATOM	1920	И			248	-13.925	75.920	26.050	1.00 50.16	
ATOM	1921	CD			248	-13.412	75.126		1.00 50.04	AAAA
ATOM	1922	CA			248	-13.444	77.303	25.974	1.00 50.89	AAAA
MOTA	1923	CB	PRC	A	248	-12.619	77.310	24.691	1.00 50.70	AAAA
ATOM	1924	CG			248	-12.162	75.884	24.565	1.00 51.21	AAAA
MOTA	1925	С	PRC	) A	248	-14.523	78.394	25.956	1.00 52.50	AAAA
ATOM	1926	0	PRC	A	248	-14.224	79.566	26.210	1.00 52.35	AAAA
MOTA	1927	N	THE	A	249	-15.765	78.028	25.646	1.00 52.66	AAAA
MOTA	1928	CA			249	-16.838	79.017	25.595	1.00 54.32	AAAA
ATOM	1929	CB			249	-17.575	79.028	24.214	1.00 54.98	AAAA
						-18.420			1.00 54.34	AAAA
ATOM	1930				249		77.871	24.096		
ATOM	1931				249	-16.570	79.058	23.064	1.00 54.03	AAAA
ATOM	1932	С			249	-17.869	78.746	26.668	1.00 54.95	AAAA
MOTA	1933	0			249	-19.025	79.129	26.544	1.00 57.09	AAAA
ATOM	1934	И	THE	Ł A	250	-17.450	78.091	27.734	1.00 55.43	AAAA
ATOM	1935	CA	THE	Ł A	250	-18.375	77.769	28.806	1.00 55.67	AAAA
ATOM	1936	СВ			250	-18.921	76.340	28.643	1.00 56.52	AAAA
ATOM	1937				250	-19.473	76.190	27.334	1.00 59.78	AAAA
ATOM	1938				250	-19.992	76.054	29.669	1.00 56.31	AAAA
MOTA	1939	C			250	-17.659	77.837	30.133	1.00 55.14	AAAA
ATOM	1940	0			250	-18.299	77.905	31.183	1.00 55.72	AAAA
ATOM	1941	N			251	-16.327	77.825			AAAA
ATOM	1942	CA	TYF	A S	251	-15.495	77.827	31.260	1.00 50.54	AAAA
ATOM	1943	CB	TYF	R A	251	-15.534	79.181	31.947	1.00 48.07	AAAA
ATOM	1944	CG			251	-15.030	80.275	31.060	1.00 46.80	AAAA
ATOM	1945				251	-15.801	80.735	29.986	1.00 47.87	AAAA
011						-0.001	55.755			

7 MOM	1046	CE1 TYR A 251	-15.316	81.735	29.125	1.00 46.95	AAAA
ATOM	1946	CD2 TYR A 251	-13.764	80.833	31.262	1.00 45.01	AAAA
MOTA	1947			81.826	30.418	1.00 46.07	AAAA
ATOM	1948	CE2 TYR A 251	-13.271				AAAA
ATOM	1949	CZ TYR A 251	-14.051	82.274	29.349	1.00 47.04	
ATOM	1950	OH TYR A 251	-13.570	83.259	28.513	1.00 46.92	AAAA
ATOM	1951	C TYR A 251	-16.102	76.757	32.137	1.00 50.21	AAAA
ATOM	1952	O TYR A 251	-16.393	76.977	33.316	1.00 48.01	AAAA
ATOM	1953	N GLN A 252	-16.314	75.601	31.516	1.00 50.16	AAAA
ATOM	1954	CA GLN A 252	-16.899	74.457	32.186	1.00 52.20	AAAA
	1955	CB GLN A 252	-18.413	74.485	32.018	1.00 53.68	AAAA
ATOM			-19.134	73.546	32.953	1.00 57.93	AAAA
MOTA	1956					1.00 60.07	AAAA
MOTA	1957	CD GLN A 252	-18.798	73.835	34.398		AAAA
ATOM	1958	OE1 GLN A 252	-19.125	74.906	34.922	1.00 59.29	
ATOM	1959	NE2 GLN A 252	-18.123	72.885	35.050	1.00 62.01	AAAA
ATOM	1960	C GLN A 252	-16.342	73.155	31.622	1.00 52.36	AAAA
ATOM	1961	O GLN A 252	-15.834	73.120	30.506	1.00 54.07	AAAA
ATOM	1962	N MET A 253	-16.426	72.085	32.402	1.00 52.31	AAAA
MOTA	1963	CA MET A 253	-15.930	70.798	31.948	1.00 51.56	AAAA
	1964	CB MET A 253	-15.300	70.000	33.100	1.00 47.96	AAAA
MOTA				70.603	33.739	1.00 42.98	AAAA
ATOM	1965	CG MET A 253	-14.058			1.00 41.36	AAAA
ATOM	1966	SD MET A 253	-12.751	70.938	32.564		
ATOM	1967	CE MET A 253	-12.346	69.315	32.007	1.00 38.38	AAAA
ATOM	1968	C MET A 253	-17.089	70.002	31.385	1.00 53.96	AAAA
ATOM	1969	O MET A 253	-18.081	69.772	32.078	1.00 54.78	AAAA
ATOM	1970	N ASP A 254	-16.963	69.593	30.125	1.00 56.61	AAAA
ATOM	1971	CA ASP A 254	-17.981	68.787	29.459	1.00 58.55	AAAA
ATOM	1972	CB ASP A 254	-18.135	69.205	27.993	1.00 58.42	AAAA
ATOM	1973	CG ASP A 254	-18.710	70.597	27.841	1.00 59.84	AAAA
		OD1 ASP A 254	-18.569	71.176	26.747	1.00 59.99	AAAA
ATOM	1974					1.00 61.08	AAAA
ATOM	1975	OD2 ASP A 254	-19.310	71.112	28.808		
ATOM	1976	C ASP A 254	-17.514	67.339	29.526	1.00 60.18	AAAA
ATOM	1977	O ASP A 254	-16.316	67.066	29.644	1.00 59.54	AAAA
ATOM	1978	N VALA 255	-18.461	66.414	29.451	1.00 61.88	AAAA
ATOM	1979	CA VAL A 255	-18.142	64.997	29.506	1.00 63.18	AAAA
ATOM	1980	CB VAL A 255	-19.310	64.195	30.088	1.00 62.28	AAAA
ATOM	1981	CG1 VAL A 255	-19.010	62.710	30.002	1.00 62.53	AAAA
ATOM	1982	CG2 VAL A 255	-19.552	64.608	31.522	1.00 61.52	AAAA
			-17.830	64.442	28.127	1.00 64.24	AAAA
ATOM	1983			64.452	27.252	1.00 65.57	AAAA
MOTA	1984	O VAL A 255	-18.686			1.00 64.99	AAAA
ATOM	1985	N ASN A 256	-16.607	63.960	27.931		AAAA
ATOM	1986	CA ASN A 256	-16.234	63.385	26.649	1.00 65.59	
MOTA	1987	CB ASN A 256	-14.720	63.292	26.505	1.00 64.80	AAAA
ATOM	1988	CG ASN A 256	-14.308	62.740	25.154	1.00 65.41	AAAA
ATOM	1989	OD1 ASN A 256	-15.119	62.135	24.450	1.00 66.45	AAAA
MOTA	1990	ND2 ASN A 256	-13.046	62.933	24.787	1.00 64.10	AAAA
ATOM	1991	C ASN A 256	-16.821	61.984	26.571	1.00 66.88	AAAA
ATOM	1992	O ASN A 256	-16.453	61.108	27.351	1.00 67.44	AAAA
MOTA	1993	N PRO A 257	-17.738	61.747	25.622	1.00 68.28	AAAA
			-18.205	62.633	24.539		AAAA
MOTA	1994	CD PRO A 257		60.414	25.504	1.00 68.62	AAAA
ATOM	1995	CA PRO A 257	-18.337			1.00 68.57	AAAA
MOTA	1996	CB PRO A 257	-19.445	60.632	24.480		
MOTA	1997	CG PRO A 257	-18.836	61.656	23.568	1.00 68.81	AAAA
ATOM	1998	C PRO A 257	-17.317	59.359	25.063	1.00 68.79	AAAA
MOTA	1999	O PRO A 257	-17.508	58.164	25.299	1.00 68.77	AAAA
ATOM	2000	N GLU A 258	-16.233	59.813	24.435	1.00 68.17	AAAA
ATOM	2001	CA GLU A 258	-15.181	58.918	23.959	1.00 68.45	AAAA
ATOM	2002	CB GLU A 258	-14.702	59.352	22.573	1.00 70.09	AAAA
ATOM	2003	CG GLU A 258	-15.646	58.958	21.458	1.00 73.60	AAAA
		CD GLU A 258	-15.040	59.164	20.092	1.00 75.72	AAAA
ATOM	2004			60.333	19.694	1.00 76.89	AAAA
MOTA	2005	OE1 GLU A 258	-14.860			1.00 77.34	AAAA
MOTA	2006	OE2 GLU A 258	-14.739	58.154	19.419		
ATOM	2007	C GLU A 258	-13.982	58.830	24.894	1.00 67.48	AAAA
ATOM	2008	O GLU A 258	-12.866	58.531	24.461	1.00 66.70	AAAA
ATOM	2009	N GLY A 259	-14.215	59.085	26.176	1.00 66.17	AAAA
ATOM	2010	CA GLY A 259	-13.131	59.031	27.137	1.00 63.66	AAAA
ATOM	2011	C GLY A 259	-12.830	57.628	27.616	1.00 62.15	AAAA
ATOM	2012	O GLY A 259	-13.679	56.733	27.545	1.00 60.63	AAAA
	2012	N LYS A 260	-11.607	57.442	28.101	1.00 61.06	AAAA
ATOM			-11.161	56.155	28.619	1.00 60.17	AAAA
MOTA	2014	CA LYS A 260				1.00 60.58	AAAA
MOTA	2015	CB LYS A 260	-10.509	55.336	27.503		
MOTA	2016	CG LYS A 260	-11.434	55.038	26.339	1.00 61.51	AAAA
MOTA	2017	CD LYS A 260	-10.804	54.049	25.375	1.00 63.16	AAAA
ATOM	2018	CE LYS A 260	-11.570	53.993	24.064	1.00 65.08	AAAA
ATOM		NZ LYS A 260	-13.018	53.689	24.266	1.00 66.94	AAAA
ATOM	2020	C LYS A 260	-10.173	56.349	29.776	1.00 58.44	AAAA

MOTA	2021	0	LYS	А	260	-9.785	57.479	30.088	1.00 57.91	AAAA
ATOM	2022	N	TYR	Α	261	-9.772	55.248	30.409	1.00 55.67	AAAA
ATOM	2023	CA	TYR			-8.831	55.309	31.522	1.00 52.07	AAAA
ATOM	2024	CB	TYR			-9.318	54.464	32.690	1.00 49.48	AAAA
ATOM	2025	CG	TYR			-10.607	54.936	33.297	1.00 47.00	AAAA
MOTA	2026	CD1	TYR	Α	261	-11.832	54.632	32.715	1.00 44.34	AAAA
ATOM	2027	CE1	TYR	Α	261	-13.019	55.084	33.273	1.00 43.38	AAAA
ATOM	2028		TYR			-10.600	55.705	34.453	1.00 47.13	AAAA
						-11.785	56.166	35.017	1.00 46.03	AAAA
ATOM	2029		TYR							
ATOM	2030	CZ	TYR			-12.986	55.852	34.422	1.00 44.23	AAAA
MOTA	2031	OH	TYR	Α	261	-14.142	56.325	34.991	1.00 45.72	AAAA
ATOM	2032	С	TYR	Α	261	-7.447	54.828	31.148	1.00 51.74	AAAA
ATOM	2033	0	TYR			-7.286	53.985	30.267	1.00 52.11	AAAA
					262	-6.448	55.373	31.830	1.00 50.75	AAAA
ATOM	2034	N								
ATOM	2035	CA	SER	A	262	-5.067	54.980	31.602	1.00 50.14	AAAA
ATOM	2036	CB	SER	Α	262	-4.106	56.119	31.965	1.00 49.74	AAAA
ATOM	2037	OG	SER	Α	262	-4.173	57.192	31.046	1.00 48.23	AAAA
ATOM	2038	C			262	-4.754	53.770	32.477	1.00 49.93	AAAA
										AAAA
ATOM	2039	0			262	-4.935	53.802	33.691	1.00 49.99	
ATOM	2040	N	PHE	Α	263	-4.293	52.700	31.849	1.00 50.71	AAAA
ATOM	2041	CA	PHE	Α	263	-3.927	51.481	32.559	1.00 51.05	AAAA
MOTA	2042	CB	PHE	Α	263	-5.008	50.419	32.387	1.00 54.72	AAAA
ATOM	2043	CG			263	-4.768	49.167	33.187	1.00 59.61	AAAA
									1.00 60.53	AAAA
ATOM	2044		PHE			-4.431	47.970	32.549		
ATOM	2045	CD2	PHE	Α	263	-4.906	49.173	34.578	1.00 60.22	AAAA
ATOM	2046	CE1	PHE	Α	263	-4.239	46.802	33.285	1.00 60.70	AAAA
ATOM	2047	CE2	PHE	Α	263	-4.715	48.006	35.325	1.00 60.28	AAAA
ATOM	2048	CZ			263	-4.384	46.822	34.679	1.00 60.95	AAAA
ATOM	2049	С			263	-2.638	51.028	31.904	1.00 50.56	AAAA
MOTA	2050	0	PHE	Α	263	-2.646	50.424	30.827	1.00 49.12	AAAA
ATOM	2051	N	GLY	Α	264	-1.523	51.341	32.547	1.00 50.31	AAAA
MOTA	2052	CA	GUY	Α	264	-0.251	50.973	31.971	1.00 49.70	AAAA
ATOM	2053	C			264	-0.161	51.724	30.665	1.00 49.89	AAAA
							52.910		1.00 52.14	AAAA
ATOM	2054	0			264	-0.469		30.618		
ATOM	2055	N	ALA	A	265	0.233	51.038	29.600	1.00 49.30	AAAA
ATOM	2056	CA	ALA	. A	265	0.372	51.670	28.297	1.00 47.40	AAAA
ATOM	2057	CB	ALA	A	265	1.608	51.139	27.602	1.00 46.31	AAAA
ATOM	2058	С			265	-0.851	51.438	27.427	1.00 47.46	AAAA
ATOM	2059	Ö			265	-0.746	51.420	26.203	1.00 46.68	AAAA
MOTA	2060	N			266	-2.011	51.274	28.055	1.00 48.17	AAAA
ATOM	2061	CA	THR	. A	266	-3.241	<b>51</b> .022	27.311	1.00 49.65	AAAA
MOTA	2062	CB	THR	A	266	-3.622	49.508	27.353	1.00 48.58	AAAA
ATOM	2063	OG1	THR	A	266	-4.029	49.154	28.676	1.00 48.91	AAAA
MOTA	2064				266	-2.437	48.631	26.961	1.00 46.18	AAAA
									1.00-50.98	AAAA
ATOM	2065	С			266	-4.422	51.821	27.860		
MOTA	2066	0			266	-4.452	52.157	29.042	1.00 51.40	AAAA
MOTA	2067	N	CYS	A	267	-5.391	52.123	26.996	1.00 52.99	AAAA
MOTA	2068	CA	CYS	Α	267	-6.590	52.860	27.406	1.00 55.11	AAAA
ATOM	2069	С			267	-7.748	51.875	27.434	1.00 56.75	AAAA
						-7.919	51.090	26.500	1.00 57.16	AAAA
ATOM	2070	0			267					
MOTA	2071	CB			267	-6.899	53.982	26.424	1.00 54.20	AAAA
ATOM	2072	SĢ	CYS	A	267	-5.445	54.981	25.989	1.00 57.74	AAAA
ATOM	2073	N	VAI	, A	268	-8.551	51.926	28.493	1.00 58.27	AAAA
ATOM	2074	CA	VAT	, <sub>2</sub>	268	-9.665	50.994	28.639	1.00 59.25	AAAA
ATOM	2075	CB			268	-9.274	49.880	29.630	1.00 58.62	AAAA
									1.00 56.64	AAAA
ATOM	2076				268	-8.097	49.103	29.086		
MOTA	20 <b>77</b>				268	-8.897	50.491	30.975	1.00 57.47	AAAA
MOTA	2078	С	VAI	. P	268	-10.958	51.652	29.114	1.00 60.54	AAAA
ATOM	2079	0	VAI	F	268	-10.937	52.767	29.629	1.00 61.52	AAAA
ATOM	2080	N			269	-12.078	50.954	28.951	1.00 62.34	AAAA
	2081					-13.380	51.481	29.371	1.00 64.85	AAAA
MOTA		CA			269					
MOTA	2082	CB			269	-14.519	50.526	28.980	1.00 65.55	AAAA
MOTA	2083	CG	LYS	5 F	269	-14.599	50.181	27.497	1.00 65.87	AAAA
MOTA	2084	CD	LYS	5 F	269	-13.430	49.300	27.080	1.00 67.45	AAAA
ATOM	2085	CE			269	-13.376	48.026	27.921	1.00 67.70	AAAA
						-12.118	47.260	27.712	1.00 68.36	AAAA
ATOM	2086	NZ			269					
ATOM	2087	С			269	-13.435	51.728	30.876	1.00 65.72	AAAA
ATOM	2088	0	$\Gamma\lambda$	5 <i>F</i>	269	-13.788	52.815	31.314	1.00 66.07	AAAA
ATOM	2089	N	LYS	3 7	270	-13.102	50.719	31.669	1.00 67.79	AAAA
ATOM	2090	CA			270	-13.110	50.879	33.122	1.00 71.12	AAAA
	2091	CB			270	-14.368	50.248	33.736	1.00 72.73	AAAA
ATOM										
MOTA	2092	CG			1 270	-15.687	50.815	33.190	1.00 76.20	AAAA
ATOM	2093	CD			270	-15.802	52.330		1.00 76.38	AAAA
ATOM	2094	CE	LY	s ?	270	-16.264	52.722	34.767	1.00 78.14	AAAA
ATOM	2095	NZ			270	-17.710	52.436	34.986	1.00 78.22	AAAA
				-						

MOTA	2096	С	LYS	Α	270	-11.863	50.257	33.745	1.00 71.54	AAAA
ATOM	2097	Ô	LYS	Α	270	-11.283	49.312	33.197	1.00 71.77	AAAA
ATOM	2098	N	CYS			-11.436	50.796	34.883	1.00 70.78	AAAA
ATOM	2099	CA.	CYS			-10.257	50.255	35.536	1.00 70.35	AAAA
		C	CYS			-10.536	48.825	35.943	1.00 71.95	AAAA
ATOM	2100							36.176	1.00 72.17	AAAA
ATOM	2101	0	CYS			-11.689	48.456			
ATOM	2102	CB	CYS			-9.887	51.075	36.767	1.00 67.01	AAAA
ATOM	2103	SG	CYS	Α	271	-9.176	52.695	36.367	1.00 62.70	AAAA
ATOM	2104	N	PRO	Α	272	-9.485	47.993	36.015	1.00 73.29	AAAA
MOTA	2105	CD	PRO	Α	272	-8.143	48.228	35.461	1.00 73.55	AAAA
	2106	CA			272	-9.641	46.589	36.401	1.00 74.19	· AAAA
ATOM							45.965	36.008	1.00 74.11	AAAA
MOTA	2107	CB			272	-8.301				
MOTA	2108	CG			272	-7.800	46.865	34.918	1.00 75.07	AAAA
ATOM	2109	С	PRO	A	272	-9.914	46.456	37.893	1.00 75.58	AAAA
ATOM	2110	0	PRO	Α	272	-10.002	47.454	38.618	1.00 74.67	AAAA
ATOM	2111	N	ARG	Α	273	-10.029	45.211	38.343	1.00 77.35	AAAA
ATOM	2112	CA	ARG			-10.301	44.918	39.742	1.00 77.99	AAAA
	2113	CB			273	-10.834	43.488	39.875	1.00 80.91	AAAA
ATOM									1.00 85.02	AAAA
ATOM	2114	CG			273	-11.848	43.098	38.805		
ATOM	2115	CD	ARG	Α	273	-13.084	43.993	38.836	1.00 88.44	AAAA
MOTA	2116	NE	ARG	Α	273	-13.889	43.848	37.624	1.00 89.23	
ATOM	2117	CZ	ARG	Α	273	-14.981	44.558	37.350	1.00 89.65	AAAA
ATOM	2118	NH1				-15.415	45.477	38.205	1.00 89.11	AAAA
		NH2				-15.638	44.349	36.215	1.00 88.99	
ATOM	2119								1.00 76.88	
ATOM	2120	C			273	-9.061	45.086	40.619		
ATOM	2121	0	ARG	Α	273	-7.973	44.599	40.289	1.00 76.21	
MOTA	2122	N	ASN	Α	274	-9.245	45.799	41.727	1.00 74.92	AAAA
ATOM	2123	CA	ASN	Α	274	-8.200	46.043	42.718	1.00 73.59	AAAA
ATOM	2124	СВ	ASN	А	274	-7.401	44.754	42.968	1.00 72.11	AAAA
ATOM	2125	CG			274	-6.805	44.699	44.366	1.00 70.44	AAAA
			ASN			-7.502	44.904	45.359	1.00 66.95	
MOTA	2126								1.00 71.38	
ATOM	2127		ASN			-5.512	44.411	44.447		
ATOM	2128	С			274	-7.251	47.214	42.433	1.00 72.90	
ATOM	2129	0	ASN	Α	274	-6.244	47.392	43.125	1.00 72.58	
ATOM	2130	N	TYR	Α	275	-7.561	48.004	41.413	1.00 71.12	AAAA
ATOM	2131	CA	TYR	Α	275	-6.751	49.174	41.108	1.00 68.67	AAAA
ATOM	2132	CB			275	-6.455	49.276	39.616	1.00 67.88	AAAA
		CG			275	-5.250	48.481	39.190	1.00 67.42	
ATOM	2133								1.00 68.27	
ATOM	2134				275	-5.275	47.089	39.191		
ATOM	2135				275	-4.152	46.348	38.830	1.00 68.51	
ATOM	2136	CD2	TYR	Α	275	-4.071	49.120	38.815	1.00 66.02	
ATOM	2137	CE2	TYR	A	275	-2.945	48.393	38.453	1.00 67.51	AAAA
ATOM	2138	CZ	TYR	A	275	-2.991	47.005	38.465	1.00 68.39	AAAA
ATOM	2139	ОН			275	-1.874	46.276	38.127	1.00 67.65	AAAA
		C			275	-7.575	50.361		1.00 67.62	
ATOM	2140							41.710	1.00 67.44	
MOTA	2141	0			275	-8.785	50.251			
MOTA	2142	N			276	-6.934	51.496	41.765	1.00 67.45	
ATOM	2143	CA	VAL	Α	276	-7.676	52.666	42.192	1.00 68.16	
ATOM	2144	CB	VAL	A	276	-6.932	53.423	43.296	1.00 68.04	
ATOM	2145	CG1	VAL	Α	276	-7.734	54.635	43.721	1.00 67.32	. AAAA
ATOM	2146				276	-6.692	52.501	44.472	1.00 66.99	AAAA (
ATOM	2147	C			276	-7.927	53.602	41.023	1.00 68.99	
						-7.072	53.766	40.151	1.00 68.87	
ATOM	2148	0			276				1.00 70.12	
ATOM	2149	N			277	-9.111	54.207	41.011		
MOTA	2150	CA			277	-9.498	55.134	39.953	1.00 70.77	
ATOM	2151	CB	VAL	A	277	-10.972	54.904	39.539	1.00 71.08	
ATOM	2152	CG1	VAL	A	277	-11.331	55.781	38.354	1.00 71.16	
ATOM	2153				277	-11.184	53.436	39.192	1.00 70.28	B AAAA
	· 2154	C			277	-9.307	56.574	40.425	1.00 70.34	AAAA
					277	-9.801	56.963	41.482	1.00 69.53	
ATOM	2155	0						39.634	1.00 70.66	
ATOM	2156	N			278	-8.583	57.359			
ATOM	2157	CA			278	-8.306	58.745	39.977	1.00 71.39	
ATOM	2158	CB	THR	A	278	-6.857	59.096	39.653	1.00 72.21	
ATOM	2159	OG1	THR	A	278	-6.035	57.944	39.859	1.00 71.73	
MOTA	2160				278	-6.370	60.218	40.564	1.00 73.70	AAAA (
ATOM	2161	C			278	-9.202	59.752	39.261	1.00 71.78	
								38.326	1.00 71.98	
ATOM	2162	0			278	-9.924	59.413			
MOTA	2163	N			279	-9.138	60.999	39.719	1.00 72.04	
MOTA	2164	CA			279	-9.912	62.097	39.148	1.00 71.77	
ATOM	2165	CB	ASE	A	279	-9.657	63.381	39.944	1.00 73.33	
ATOM	2166	CG	ASE	A	279	-10.280	63.348	41.329	1.00 75.58	
ATOM	2167				279	-9.850	64.147	42.193	1.00 76.3	AAAA
ATOM	2168				279	-11.206	62.536	41.548	1.00 76.3	
								37.692	1.00 70.5	
ATOM	2169	C			279	-9.532	62.339		1.00 70.0	
ATOM	2170	0	ASI	· A	. 279	-10.310	62.899	36.924	1.00 /1.0.	

ATOM	2171	N	HIS	Α	280	-8.329	61.906	37.328	1.00 68.86	AAAA
ATOM	2172	CA	HIS	A	280	-7.794	62.081	35.982	1.00 66.47	AAAA
MOTA	2173	CB			280	-6.281	62.266	36.058	1.00 66.61	AAAA
ATOM	2174	CG			280	-5.851	63.265	37.081	1.00 66.61	AAAA
ATOM	2175		HIS			-5.150	63.119	38.229	1.00 67.87	AAAA
ATOM ATOM	2176 2177		HIS			-6.155 -5.658	64.605	36.985	1.00 67.29 1.00 67.94	AAAA AAAA
ATOM	2178		HIS			-5.044	65.241 64.362	38.030 38.800	1.00 67.94	AAAA AAAA
ATOM	2179	C			280	-8.099	60.922	35.043	1.00 65.12	AAAA
ATOM	2180	0			280	-7.426	60.749	34.026	1.00 65.02	AAAA
ATOM	2181	N	GLY	Α	281	-9.104	60.127	35.382	1.00 63.61	AAAA
ATOM	2182	CA	GLY	Α	281	-9.453	59.002	34.535	1.00 61.53	AAAA
ATOM	2183	С			281	-8.276	58.084	34.273	1.00 59.92	AAAA
ATOM	2184	0			281	-7.904	57.852	33.124	1.00 60.61	AAAA
ATOM	2185	N			282	-7.687	57.566	35.346	1.00 58.23	AAAA
ATOM ATOM	2186 2187	CA CB			282 282	-6.548 -5.228	56.658 57.442	35.241 35.277	1.00 56.74 1.00 56.18	AAAA AAAA
ATOM	2188	OG			282	-5.042	58.098	36.523	1.00 56.20	AAAA
ATOM	2189	C			282	-6.577	55.645	36.382	1.00 55.75	AAAA
ATOM	2190	0			282	-7.183	55.885	37.425	1.00 55.71	AAAA
ATOM	2191	N			283	-5.921	54.510	36.179	1.00 54.44	AAAA
ATOM	2192	CA	CYS	A	283	-5.882	53.468	37.189	1.00 54.50	AAAA
ATOM	2193	С			283	-4.500	53.430	37.827	1.00 53.90	AAAA
ATOM	2194	0			283	-3.505	53.141	37.159	1.00 51.70	AAAA
ATOM	2195	CB			283	-6.206	52.127	36.543	1.00 57.15	AAAA
ATOM	2196	SG			283	-7.518	52.257	35.290	1.00 57.30	AAAA
ATOM ATOM	2197 2198	N CA			284 284	-4.451 -3.196	53.731 53.763	39.122	1.00 53.41 1.00 53.72	AAAA
ATOM	2199	CB			284	-2.983	55.121	39.861 40.542	1.00 52.30	AAAA AAAA
ATOM	2200		VAL			-3.075	56.238	39.516	1.00 51.69	AAAA
ATOM	2201		VAL			-4.004	55.311	41.647	1.00 49.69	AAAA
ATOM	2202	C			284	-3.184	52.715	40.949	1.00 55.99	AAAA
ATOM	2203	0	VAL	Α	284	-4.244	52.252	41.376	1.00 55.32	AAAA
ATOM	2204	N			285	-1.980	52.362	41.405	1.00 58.06	AAAA
ATOM	2205	CA			285	-1.809	51.366	42.459	1.00 59.96	AAAA
MOTA MOTA	2206 2207	CB			285	-0.590	50.490	42.165	1.00 58.37	AAAA
ATOM	2208	CG CD			285 285	-0.799 0.003	49.572 48.293	40.978 41.105	1.00 59.24 1.00 58.41	AAAA AAAA
ATOM	2209	NE			285	1.408	48.466	40.756	1.00 58.50	AAAA
ATOM	2210	CZ			285	1.940	48.059	39.609	1.00 57.44	AAAA
ATOM	2211	NH1	ARG			1.173	47.459	38.709	1.00 55.75	AAAA
ATOM	2212	NH2	ARG	A	285	3.235	48.238	39.370	1.00 55.65	AAAA
ATOM	2213	С			285	-1.678	52.002	43.838	1.00 62.01	AAAA
ATOM	2214	0			285	-1.771	51.324	44.857	1.00 60.61	AAAA
ATOM	2215	N			286	-1.466	53.312	43:860	1.00 66.35	AAAA
ATOM ATOM	2216 2217	CA CB			286 286	-1.334 0.088	54.050 53.961	45.109 45.615	1.00 70.62 1.00 70.20	AAAA
ATOM	2217	СВ			286	-1.711	55.503	44.870	1.00 70.20	дада дада
ATOM	2219	0			286	-1.322	56.088	43.858	1.00 73.97	AAAA
MOTA	2220	N			287	-2.470	56.083	45.796	1.00 78.98	AAAA
ATOM	2221	CA	CYS	Α	287	-2.890	57.473	45.667	1.00 84.13	AAAA
MOTA	2222	C			287	-1.738	58.409	46.010	1.00 87.57	AAAA
ATOM	2223	0			287	-0.573	58.006	46.041	1.00 87.23	AAAA
ATOM	2224	CB			287	-4.063	57.781	46.603	1.00 85.98	AAAA
ATOM ATOM	2225 2226	SG N			287 288	-5.516 -2.082	56.690 59.666	46.471 46.277	1.00 89.26	AAAA AAAA
ATOM	2227	CA			288	-1.084	60.660	46.625	1.00 91.71 1.00 95.74	AAAA
ATOM	2228	C.			288	-1.011	60.866	48.125	1.00 98.59	AAAA
ATOM	2229	Ō			288	-1.816	60.314	48.879	1.00 98.93	AAAA
ATOM	2230	N	ALA	A	289	-0.046	61.668	48.559	1.00100.90	AAAA
ATOM	2231	CA	ALA	. A	289	0.143	61.941	49.976	1.00103.37	AAAA
ATOM	2232	CB			289	1.262	62.959	50.157	1.00103.87	AAAA
ATOM	2233	C			289	-1.128	62.440	50.656	1.00104.94	AAAA
ATOM	2234	0			289	-1.440	62.041	51.780	1.00105.13	AAAA
ATOM ATOM	2235 2236	N CD			290	-1.864	63.303	49.966	1.00106.71	AAAA
ATOM	2237	CA CB			. 290 . 290	-3.084 -3.371	63.880 65.210	50.515 49.829	1.00108.56 1.00108.76	AAAA AAAA
MOTA	2238	С			290	-4.330	62.997	50.459	1.00108.76	AAAA
ATOM	2239	o			290	-5.227	63.146	51.287	1.00103.03	AAAA
ATOM	2240	N			291	-4.392	62.078	49.500	1.00110.47	AAAA
ATOM	2241	CA	SER	. A	291	-5.568	61.217	49.355	1.00110.94	AAAA
ATOM	2242	CB			291	-5.756	60.841	47.879	1.00111.25	AAAA
ATOM	2243	OG			291	-5.889	61.990	47.060	1.00111.60	AAAA
MOTA	2244	C			291	-5.565	59.937	50.191	1.00110.77	AAAA
MOTA	2245	0	SER	. А	291	-4.631	59.669	50.947	1.00110.38	AAAA

ATOM	2246	N	TYR	Δ	292	-6.642	59.169	50.044	1.00110.58	AAAA
ATOM	2247	CA	TYR			÷6.823	57.887	50.717	1.00111.08	AAAA
						-7.460	58.056	52.107	1.00112.17	AAAA
ATOM ·	2248	CB	TYR				58.779	52.162	1.00113.92	AAAA
ATOM	2249	CG	TYR			-8.793		53.193	1.00113.52	AAAA
ATOM	2250		TYR			-9.701	58.514	53.283	1.00114.37	AAAA
ATOM	2251		TYR			-10.915	59.195			AAAA
ATOM	2252		TYR			-9.138	59.749	51.220	1.00114.20	
ATOM	2253		TYR			-10.348	60.437	51.305	1.00113.79	AAAA
ATOM	2254	CZ	TYR	А	292	-11.230	60.154	52.336	1.00114.12	AAAA
MOTA	2255	OH	TYR	Α	292	-12.424	60.830	52.419	1.00114.01	AAAA
ATOM	2256	С	TYR	Α	292	-7.697	57.007	49.820	1.00110.58	AAAA
ATOM	2257	0	TYR	Α	292	<b>-7</b> .693	57.189	48.605	1.00111.08	AAAA
ATOM	2258	N	GLU	Α	293	-8.444	56.065	50.393	1.00109.66	AAAA
ATOM	2259	CA	GLU	Α	293	-9.284	55.187	49.573	1.00108.40	AAAA
ATOM	2260	CB	GLU			-8.604	53.818	49.423	1.00107.24	AAAA
ATOM	2261	CG	GLU			-7.357	53.841	48.534	1.00105.27	AAAA
ATOM	2262	CD	GLU			-6.773	52.456	48.279	1.00104.14	AAAA
ATOM	2263		GLU			-7.556	51.517	48.023	1.00103.24	AAAA
			GLU			-5.530	52.310	48.318	1.00102.37	AAAA
ATOM	2264						54.998	50.058	1.00108.20	AAAA
ATOM	2265	C			293	-10.726			1.00108.35	AAAA
MOTA	2266	0			293	-10.982	54.941	51.259		
MOTA	2267	И	MET			-11.659	54.905	49.108	1.00108.11	AAAA
ATOM	2268	CA	MET			-13.084	54.711	49.408	1.00108.11	AAAA.
MOTA	2269	CB	MET			-13.832	56.052	49.360	1.00108.76	AAAA
ATOM	2270	CG	MET	Α	294	-15.309	55.960	49.756	1.00109.70	AAAA
ATOM	2271	SD	MET	Α	294	-16.180	57.555	49.823	1.00110.19	AAAA
MOTA	2272	CE	MET	Α	294	-17.304	57.407	48.426	1.00109.59	AAAA
MOTA	2273	С	MET	Α	294	-13.715	53.743	48.404	1.00107.62	AAAA
ATOM	2274	0	MET	Α	294	-13.478	53.851	47.202	1.00107.43	AAAA
ATOM	2275	N	ALA	А	295	-14.521	52.802	48.893	1.00107.51	AAAA
ATOM	2276	CA			295	-15.162	51.822	48.015	1.00107.97	AAAA
ATOM	2277	СВ			295	-14.255	50.606	47.852	1.00107.46	AAAA
ATOM	2278	C			295	-16.544	51.377	48.496	1.00108.19	AAAA
ATOM	2279	Ö			295	-17.393	52.209	48.823	1.00108.59	AAAA
					296	-16.757	50.059	48.517	1.00108.13	AAAA
MOTA	2280	N						48.947	1.00107.58	AAAA
MOTA	2281	CA			296	-18.016	49.436		1.00107.30	AAAA
MOTA	2282	CB			296	-18.336	49.812	50.394		AAAA
MOTA	2283	CG			296	-17.881	48.755	51.370	1.00106.73	
MOTA	2284	CD			296	-18.132	47.364	50.828	1.00106.38	AAAA
MOTA	2285		GLU			-19.295	47.058	50.496	1.00105.96	AAAA
ATOM	2286	OE2	GLU	Α	296	-17.166	46.582	50.722	1.00106.41	AAAA
ATOM	2287	С	GLU	Α	296	-19.226	49.716	48.069	1.00107.13	AAAA
ATOM	2288	0	GLU	Α	296	-20.118	48.878	47.934	1.00105.58	AAAA
ATOM	2289	N	ASP	Α	297	-19.251	50.908	47.489	1.00108.00	AAAA
ATOM	2290	CA	ASP	Α	297	 -20.319	51.325	46.593	1.00108.25	AAAA
ATOM	2291	CB	ASP	Α	297	-21.196	52.387	47.262	1.00108.16	AAAA
ATOM	2292	CG	ASP	Α	297	-22.439	51.794	47.898	1.00108.19	AAAA
ATOM	2293	OD1	ASP	Α	297	-23.127	52.512	48.654	1.00107.93	AAAA
ATOM	2294	OD2	ASP	Α	297	-22.733	50.609	47.632	1.00108.13	AAAA
ATOM	2295	C			297	-19.669	51.872	45.323	1.00108.10	AAAA
ATOM	2296	ō			297	-19.497	53.083	45.155	1.00107.89	AAAA
ATOM	2297	N			298	-19.297	50.950	44.440	1.00107.63	AAAA
ATOM	2298	CA			298	-18.653	51.313	43.194	1.00107.00	AAAA ·
ATOM	2299	C			298	-17.265	50.706	43.116	1.00106.60	AAAA
MOTA	2300	Ö			298	-17.101	49.485	43.186	1.00106.62	AAAA
					299	-16.260	51.564	42.981	1.00105.33	AAAA
ATOM	2301	N				-14.881	51.115	42.890	1.00103.71	AAAA
ATOM	2302	CA			299			41.447	1.00103.55	AAAA
MOTA	2303	CB			299	-14.400	51.219		1.00103.55	AAAA
ATOM	2304	С			299	-13.990	51.948	43.805		AAAA
ATOM	2305	0			299	-14.274	53.116	44.065	1.00102.21	
MOTA	2306	N			300	-12.915	51.341	44.297	1.00101.29	AAAA
MOTA	2307	CA			300	-11.988	52.044	45.173	1.00 99.74	AAAA
ATOM	2308	CB	ALA	A	300	-10.835	51.127	45.569	1.00 99.37	AAAA
MOTA	2309	С	ALA	A	300	-11.462	53.270	44.441	1.00 98.46	AAAA
MOTA	2310	0	ALA	A	300	-10.791	53.155	43.418	1.00 98.09	AAAA
ATOM	2311	N	ALA	A	301	-11.783	54.445	44.964	1.00 97.31	AAAA
ATOM	2312	CA			301	-11.343	55.688	44.357	1.00 96.32	AAAA
ATOM	2313	CB			301	-12.537	56.453	43.804	1.00 95.72	AAAA
ATOM	2314	C			301	-10.618	56.531	45.389	1.00 96.05	AAAA
ATOM	2315	ō			301	-10.949	56.496	46.574	1.00 95.28	AAAA
ATOM	2316	N			302	-9.616	57.278	44.935	1.00 96.42	AAAA
	2317	CA			302	-8.858	58.147	45.825	1.00 96.80	AAAA
ATOM	2318	CA			302		59.380	46.055	1.00 98.21	AAAA
ATOM						-10.754	59.548	45.426	1.00 99.06	AAAA
ATOM	2319	0			302	-7.532	58.579	45.188	1.00 94.62	AAAA
MOTA	2320	CB	CIS	, <sub>P</sub>	302	1.002	50.515	40.TO		

MOTA	2321	SG	CYS A	302	-6.387	57.239	44.722	1.00 92.46	AAAA
ATOM	2322	N	SER A	303	-9.269	60.242	46.958	1.00 99.54	AAAA
ATOM	2323	CA	SER A						
					-10.001	61.463	47.236	1.00100.90	AAAA
MOTA	2324	CB	SER A		-11.054	61.216	48.319	1.00101.51	AAAA
ATOM	2325	OG	SER A		<b>-</b> 11.859	62.366	48.527	1.00103.04	AAAA
ATOM	2326	С	SER A	303	-9.017	62.541	47.673	1.00101.55	AAAA
ATOM	2327	0	SER A	303	-8.297	63.100	46.844		AAAA
ATOM	2328	N	LYS A		-8.980	62.820	48.972	1.00101.77	AAAA
ATOM	2329								
		CA	LYS A		-8.087	63.837	49.517	1.00101.56	AAAA
ATOM	2330	CB	LYS A		-8.288	65.162	48.767	1.00101.20	AAAA
MOTA	2331	CG	LYS A	304	-7.026	65.991	48.573	1.00100.59	AAAA
MOTA	2332	CD	LYS A	304	-7.063	67.265	49.399	1.00100.68	AAAA
ATOM	2333	CE	LYS A		-5.860	68.145	49.096	1.00100.67	AAAA
ATOM	2334	NZ	LYS A						
					-5.848	69.391	49.910	1.00100.16	AAAA
ATOM	2335	С	LYS A		-8.421	64.008	50.999	1.00101.57	AAAA
ATOM	2336	0	LYS A	304	-9.588	63.953	51.390	1.00101.41	AAAA
ATOM	2337	N	CYS A	305	-7.397	64.198	51.824	1.00101.44	AAAA
ATOM	2338	CA	CYS A	305	-7.613	64.374	53.254	1.00101.11	AAAA
ATOM	2339	С	CYS A		-8.017	65.808			
			OID N	202			53.559	1.00101.70	AAAA
ATOM	2340	0	CYS A		-9.187	66.087	53.821	1.00102.45	AAAA
MOTA	2341	CB	CYS A	305	-6.350	64.011	54.046	1.00 99.60	AAAA
ATOM	2342	SG	CYS A	305	-5.939	62.234	54.074	1.00 96.32	AAAA
MOTA	2343	N	GLY A	307	-6.746	66.346	55.958	1.00 97.56	AAAA
MOTA	2344	CA	GLY A		-5.446	66.837	56.374	1.00 97.55	AAAA
ATOM	2345	C	GLY A						
					-4.797	65.906	57.378	1.00 97.42	AAAA
ATOM	2346	0	GLY A		-3.575	65.909	57.544	1.00 97.50	AAAA
ATOM	2347	N	ALA A	308	-5.625	65.107	58.047	1.00 97.08	AAAA
ATOM	2348	CA	ALA A	308	-5.152	64.150	59.044	1.00 96.34	AAAA
MOTA	2349	CB	ALA A	308	-6.271	63.849	60.044	1.00 95.92	AAAA
ATOM	2350	C	ALA A		-4.668	62.851		1.00 95.56	
							58.387		AAAA
MOTA	2351	0	ALA A		-4.649	61.793	59.024	1.00 96.07	AAAA
MOTA	2352	N	CYS A	309	-4.279	62.94 <b>7</b>	57.114	1.00 93.71	AAAA
ATOM	2353	CA	CYS A	309	-3.786	61.806	56.335	1.00 90.70	AAAA
MOTA	2354	C	CYS A	309	-2.846	60.898	57.125	1.00 87.47	AAAA
MOTA	2355	0	CYS A		-1.995	61.371	57.877	1.00 86.97	AAAA
ATOM	2356	CB	CYS A						
					-3.061	62.305	55.075	1.00 92.15	AAAA
ATOM	2357	SG	CYS A		-3.991	62.169	53.509	1.00 94.02	AAAA
ATOM	2358	N	ALA A	310	-3.010	59.590	56.944	1.00 84.10	<b>A</b> AAA
ATOM	2359	CA	ALA A	310	-2.173	58.602	57.615	1.00 79.82	AAAA
ATOM	2360	CB	ALA A	310	-2.863	57.250	57.608	1.00 80.09	AAAA
ATOM	2361	С	ALA A		-0.835	58.514	56.886	1.00 76.93	AAAA
ATOM	2362	Ö	ALA A		-0.768				
						58.710	55.671	1.00 76.30	AAAA
ATOM	2363	N	ALA A		0.229	58.221	57.626	1.00 74.09	AAAA
ATOM	2364	CA	ALA A	311	1.562	58.130	57.037	1.00 71.46	AAAA
ATOM	2365	CB	ALA A	311	2.618	58.038	58.144	1.00 71.14	AAAA
ATOM	2366	C	ALA A	311	1.709	56.956	56.058	1.00 69.68	AAAA
ATOM	2367	0	ALA A		1.479	55.796	56.416	1.00 68.07	AAAA
ATOM	2368	N	VAL A		2.090				
						57.278	54.822	1.00 66.83	AAAA
ATOM	2369	CA	VAL A		2.279	56.283			AAAA
ATOM	2370	CB	VAL A	312	1.473	56.651	52.492	1.00 63.44	AAAA
ATOM	2371	CG1	VAL A	312	1.762	55.651	51.386	1.00 61.07	AAAA
ATOM	2372	CG2	VAL A	312	-0.019	56.685	52.799	1.00 61.63	AAAA
MOTA	2373	C	VAL A		3.758	56.185	53.396	1.00 63.89	AAAA
ATOM	2374	ō	VAL A		4.335	57.132	52.855	1.00 64.25	AAAA
ATOM	2375								
		N	CYS A		4.365	55.035	53.676	1.00 62.37	AAAA
MOTA	2376	CA	CYS A		5.777	54.827	53.371	1.00 60.59	AAAA
ATOM	2377	C	CYS A	313	5.967	53.918	52.167	1.00 58.86	AAAA
ATOM	2378	0	CYS A	313	5.184	53.006	51.940	1.00 58.81	AAAA
ATOM	2379	CB	CYS A		6.485	54.234	54.592	1.00 61.02	AAAA
ATOM	2380	SG	CYS A		6.203	55.217	56.101	1.00 62.70	AAAA
ATOM	2381	N	ASN A		7.001	54.180	51.382	1.00 57.78	AAAA
ATOM	2382	CA	ASN A		7.269	53.353	50.219	1.00 58.37	AAAA
MOTA	2383	CB	ASN A	314	8.335	54.001	49.331	1.00 59.19	AAAA
ATOM	2384	CG	ASN A	314	7.823	55.243	48.628	1.00 60.57	AAAA
MOTA	2385		ASN A		6.645	55.322	48.275	1.00 60.81	AAAA
ATOM	2386		ASN A		8.707	56.213	48.404	1.00 60.24	AAAA
ATOM	2387								
		C	ASN A		7.724	51.966	50.663	1.00 57.66	AAAA
ATOM	2388	0	ASN A		8.132	51.778	51.806	1.00 56.29	AAAA
ATOM	2389	N	GLY A		7.647	50.996	49.758	1.00 56.44	AAAA
ATOM	2390	CA	GLY A	315	8.049	49.650	50.108	1.00 55.97	AAAA
ATOM	2391	C	GLY A	315	9.331	49.234	49.425	1.00 56.05	AAAA
ATOM	2392	ō	GLY A		9.775	49.897	48.491	1.00 55.91	AAAA
ATOM	2393	N							
			ILE A		9.934	48.141	49.889	1.00 55.02	AAAA
ATOM	2394	CA	ILE A		11.165	47.659	49.287	1.00 56.18	AAAA
MOTA	2395	CB	ILE A	316	11.604	46.319	49.929	1.00 54.77	AAAA

ATOM	2396	CG2	ILE A	316	12.488	45.534	48.975	1.00 54.10	AAAA
ATOM	2397		ILE A		12.378	46.583	51.216	1.00 52.71	AAAA
ATOM	2398	CD1	ILE A		11.637	47.385	52.225	1.00 53.24	AAAA
	2399	C	ILE A		10.953	47.476	47.782	1.00 57.95	AAAA
ATOM			ILE A		9.943	46.925	47.354	1.00 58.12	AAAA
ATOM	2400	0					46.976	1.00 60.12	AAAA
ATOM	2401	N	GLY A		11.893	47.951		1.00 64.05	AAAA
ATOM	2402	CA	GLY A		11.742	47.799	45.540		
ATOM	2403	С	GLY A		11.601	49.114	44.799	1.00 67.19	AAAA
ATOM	2404	0	GLY A	317	12.068	49.239	43.669	1.00 67.45	AAAA
ATOM	2405	N	ILE A	A 318	10.950	50.092	45.426	1.00 70.08	AAAA
ATOM	2406	CA	ILE A	A 318	10.767	51.413	44.822	1.00 73.11	AAAA
ATOM	2407	CB	ILE A	A 318	9.273	51.722	44.517	1.00 73.09	AAAA
ATOM	2408	CG2	ILE A	A 318	8.724	50.712	43.533	1.00 72.90	AAAA
ATOM	2409	CG1	ILE A	A 318	8.461	51.725	45.812	1.00 73.43	AAAA
ATOM	2410	CD1	ILE A		7.000	52.056	45.617	1.00 75.30	AAAA
ATOM	2411	C		A 318	11.290	52.495	45.764	1.00 74.48	AAAA
ATOM	2412	0		A 318	11.839	52.189	46.825	1.00 73.82	AAAA
				A 319	11.107	53.755	45.368	1.00 75.85	AAAA
ATOM	2413	N					46.179	1.00 77.46	AAAA
ATOM	2414	CA		A 319	11.562	54.871		1.00 77.40	AAAA
ATOM	2415	C ·		A 319	13.036	54.783	46.526		AAAA
ATOM	2416	0		A 319	13.853	54.329	45.717	1.00 78.83	
ATOM	2417	И		A 320	13.380	55.215	47.737	1.00 80.00	AAAA
MOTA	2418	CA		A 320	14.764	55.178	48.193	1.00 81.25	AAAA
MOTA	2419	CB	GLU A	A 320	14.917	55.975	49.498	1.00 82.16	AAAA
MOTA	2420	CG	GLU Z	A 320	13.727	55.897	50.454	1.00 84.19	AAAA
ATOM	2421	CD	GLU 2	A 320	13.860	56.845	51.649	1.00 85.60	AAAA .
ATOM	2422	OE1	GLU 2	A 320	12.850	57.065	52.359	1.00 86.12	AAAA
MOTA	2423	OE2	GLU 2	A 320	14.971	57.369	51.884	1.00 84.53	AAAA
ATOM	2424	С	GLU Z	A 320	15.314	53.762	48.382	1.00 81.33	AAAA
ATOM	2425	0	GLU	A 320	16.475	53.593	48.757	1.00 82.58	AAAA
ATOM	2426	N		A 321	14.496	52.747	48.113	1.00 80.39	AAAA
ATOM	2427	CA		A 321	14.942	51.365	48.276	1.00 79.12	AAAA
MOTA	2428	CB		A 321	14.123	50.661	49.361	1.00 80.00	AAAA
MOTA	2429	CG		A 321	13.685	51.562	50.481	1.00 80.57	AAAA
			PHE .		12.570	52.375	50.337	1.00 80.90	AAAA
ATOM	2430					51.585	51.687	1.00 81.40	AAAA
ATOM	2431		PHE .		14.374			1.00 81.86	AAAA
ATOM	2432	CE1		A 321	12.143	53.194	51.378		AAAA
ATOM	2433	CE2		A 321	13.954	52.403	52.733	1.00 82.07	AAAA
ATOM	2434	CZ		A 321	12.837	53.207	52.579	1.00 81.39	
ATOM	2435	С		A 321	14.821	50.576	46.979	1.00 77.65	AAAA
ATOM	2436	0		A 321	14.462	49.401	46.997	1.00 77.17	AAAA
ATOM	2437	N	LYS .	A 322	15.130	51.223	45.861	1.00 76.23	AAAA
MOTA	2438	CA	LYS .	A 322	15.032	50.592	44.547	1.00 74.80	AAAA
ATOM	2439	CB	LYS .	A 322	15.467	51.580	43.451	1.00 78.21	AAAA
ATOM	2440	CG	LYS	A 322	15.267	51.092	42.005	1.00 80.26	- AAAA
ATOM	2441	CD	LYS .	A 322	13.787	51.027	41.620	1.00 82.91	AAAA
ATOM	2442	CE	LYS .	A 322	13.588	50.601	40.160	1.00 83.20	AAAA
ATOM	2443	NZ	LYS	A 322	12.144	50.450	39.792	1.00 82.23	AAAA
MOTA	2444	С	LYS	A 322	15.843	49.306	44.426	1.00 71.70	AAAA
ATOM	2445	0		A 322	15.361	48.316	43.881	1.00 71.96	AAAA
ATOM	2446	N		A 323	17.072	49.312	44.920	1.00 67.88	AAAA
ATOM	2447	CA		A 323	17.891	48.115	44.829	1.00 64.97	AAAA
ATOM	2448	СВ		A 323	19.210	48.409	44.108	1.00 68.57	AAAA
ATOM	2449	CG		A 323	19.046	48.514	42.598	1.00 71.53	AAAA
ATOM	2450			A 323	18.561	47.538	41.982	1.00 72.27	AAAA
ATOM	2451			A 323	19.408	49.570	42.029	1.00 72.48	AAAA
	2451	C		A 323	18.176	47.536	46.197	1.00 61.44	AAAA
ATOM				A 323	19.268	47.041	46.455	1.00 62.21	AAAA
MOTA	2453	0					47.072	1.00 56.50	AAAA
MOTA	2454	N		A 324	17.186	47.593		1.00 52.77	AAAA
ATOM	2455	CA		A 324	17.332	47.061	48.413	1.00 52.77	AAAA
MOTA	2456	CB		A 324	16.692	48.014	49.416		
ATOM	2457	OG		A 324	17.201	49.314	49.221	1.00 56.17	AAAA
ATOM	2458	С		A 324	16.652	45.706	48.480	1.00 49.36	AAAA
ATOM	2459	0		A 324	15.456	45.599	48.211	1.00 48.08	AAAA
ATOM	2460	N	LEU	A 325	17.408	44.678	48.849	1.00 44.46	AAAA
MOTA	2461	CA	LEU	A 325	16.862	43.330	48.939	1.00 41.37	AAAA
MOTA	2462	CB	LEU	A 325	17.997	42.308	49.034	1.00 37.68	AAAA
ATOM	2463	CG		A 325	18.858	42.203	47.784	1.00 37.42	AAAA
ATOM	2464			A 325	19.672	40.942	47.859	1.00 36.15	AAAA
ATOM	2465			A 325	17.989	42.187	46.543	1.00 36.66	· AAAA
ATOM	2466	C		A 325	15.880	43.045	50.074	1.00 40.04	AAAA
ATOM	2467	o		A 325	15.041	42.156	49.957	1.00 41.56	AAAA
ATOM	2468	N		A 325	15.962			1.00 38.56	AAAA
								1.00 36.73	AAAA
ATOM	2469	CA		A 326				1.00 34.71	AAAA
MOTA	2470	СВ	ンドス	A 326	15.699	42.213	33.024		

MOTA	2471	OG	SER	Α	326	15.076	42.012	54.264	1.00 3	0.65	AAAA
ATOM	2472	С	SER			15.004	44.669	53.283	1.00 3		AAAA
ATOM	2473	ō	SER			15.619	45.712	53.104	1.00 3		AAAA
ATOM	2474	N	ILE			14.178	44.489	54.304	1.00 3		AAAA
ATOM	2475	CA	ILE			14.068	45.486	55.340	1.00 4		AAAA
MOTA	2476	CB	ILE			12.976	45.132	56.358	1.00 4	2.73	AAAA
ATOM	2477	CG2	ILE	Α	327	13.070	46.065	57.55 <b>1</b>	1.00 4	3.32	AAAA
ATOM	2478	CG1	ILE	Α	327	11.593	45.221	55.712	1.00 4	3.59	AAAA
MOTA	2479		ILE			11.135	46.626	55.436	1.00 4		AAAA
ATOM	2480	C	ILE				45.225				
						15.414		55.996	1.00 4		AAAA
MOTA	2481	0	ILE			15.771	44.063	56.197	1.00 4		AAAA
MOTA	2482	N	ASN	Α	328	16.182	46.266	56.300	1.00 4	14.39	AAAA
MOTA	2483	CA	ASN	Α	328	17.474	46.034	56.937	1.00 4	15.42	AAAA
ATOM	2484	CB	ASN	Α	328	18.560	45.758	55.875	1.00 4	15.06	AAAA
АТОМ	2485	CG	ASN			18.921	46.982	55.061	1.00 4		AAAA
ATOM	2486		ASN			19.135	48.045	55.627	1.00 4		AAAA
MOTA	2487		ASN			19.001	46.829	53.740	1.00 4		AAAA
ATOM	2488	С	ASN	Α	328	17.889	47.170	57.878	1.00 4	15.45	AAAA
ATOM	2489	0	ASN	Α	328	17.240	48.221	57.919	1.00 4	15.92	AAAA
ATOM	2490	N			329	18.956	46.936	58.644	1.00 4		AAAA
ATOM	2491	CA	ALA			19.478	47.909	59.614	1.00 4		AAAA
MOTA	2492	CB	ALA			20.874	47.510	60.041	1.00 4		AAAA
ATOM	2493	С	ALA	Α	329	19.495	49.329	59.070	1.00 4	12.13	AAAA
MOTA	2494	0	ALA	Α	329	19.075	50.273	59.739	1.00 4	12.60	AAAA
MOTA	2495	N	THR	Α	330	19.971	49.481	57.845	1.00 4	10.97	AAAA
ATOM	2496	CA	THR	Ά	330	20.027	50.791	57.246	1.00 4	10.78	AAAA
ATOM	2497	CB			330	20.703	50.744	55.894	1.00 3		AAAA
ATOM	2498		THR			22.001	50.150	56.020	1.00 3		AAAA
ATOM	2499		THR				52.134	55.344	1.00 4		AAAA
ATOM	2500	С	THR	Α	330	18.656	51.417	57.053	1.00 4	43.88	AAAA
MOTA	2501	0	THR	Α	330	18.386	52.502	57.567	1.00 4	45.93	AAAA
ATOM	2502	N	ASN	А	331	17.773	50.729	56.333	1.00 4		AAAA
ATOM	2503	CA			331	16.449	51.282	56.035	1.00 4		AAAA
MOTA	2504	CB			331	15.941	50.711	54.700	1.00 4		AAAA
MOTA	2505	CG			331	15.752	49.194	54.734	1.00 4	45.50	AAAA
ATOM	2506	OD1	ASN	A	331	14.986	48.666	55.54 <b>7</b>	1.00 4	42.11	AAAA
ATOM	2507	ND2	ASN	Α	331	16.449	48.489	53.839	1.00 4	43.65	AAAA
MOTA	2508	C	ASN	Α	331	15.331	51.175	57.067	1.00	45.12	AAAA
ATOM	2509	0			331	14.369	51.947	57.018	1.00		AAAA
ATOM	2510										
		N			332	15.437	50.262	58.019	1.00		AAAA
MOTA	2511	CA			332	14.330	50.125	58.952	1.00		AAAA
ATOM	2512	CB	ILE	A	332	14.579	49.015	59.989	1.00	49.48	AAAA
ATOM	2513	CG2	ILE	Α	332	15.683	49.424	60.945	1.00	48.80	AAAA
ATOM	2514	CG1	ILE	Α	332	13.268	48.719	60.724	1.00 4	48.50	AAAA
ATOM	2515	CD1	ILE	А	332	13.228	47.387	61.386			AAAA
ATOM	2516	C			332	13.946	51.400	59.671	1.00 !		AAAA
ATOM	2517	0			332	12.876	51.478	60.277	1.00 5		AAAA
ATOM	2518	И			333	14.810	52.408	59.603	1.00	56.43	AAAA
ATOM	2519	CA	LYS	A	333	14.520	53.670	60.263	1.00	56.96	AAAA
MOTA	2520	CB	LYS	Α	333	15.786	54.540	60.379	1.00 9	59.75	AAAA
MOTA	2521	CG	LYS	Α	333	16.371	55.075	59.068	1.00	62.92	AAAA
ATOM	2522	CD			333	17.455			1.00		AAAA
MOTA	2523	CE			333	17.871	56.917	58.093	1.00		AAAA
ATOM	2524	NZ			333	18.767		57.170	1.00		AAAA
ATOM	2525	С			333	13.431	54.413		1.00		AAAA
ATOM	2526	0	LYS	Α	333	12.530	54.985	60.114	1.00	55.22	AAAA
ATOM	2527	N	HIS	Α	334	13.489	54.376	58.180	1.00	58.03	AAAA
ATOM	2528	CA	HIS	Α	334	12.496	55.082	57.392	1.00	59.93	AAAA
ATOM	2529	CB			334	12.899		55.921	1.00		AAAA
ATOM	2530	CG			334	13.377			1.00		AAAA
ATOM	2531				334	14.558	56.849		1.00		AAAA
MOTA	2532				. 334	12.599	57.590	55.554	1.00		AAAA
ATOM	2533	CE1	HIS	Α	. 334	13.280	58.626	55.101	1.00	63.92	AAAA
MOTA	2534	NE2	HIS	Α	334	14.472	58.204	54.718	1.00	64.97	AAAA
ATOM	2535	C			334	11.060	54.599		1.00		AAAA
ATOM	2536	Ö			334						AAAA
						10.122	55.367		1.00		
ATOM	2537	N			. 335	10.861	53.341	57.904	1.00		AAAA
MOTA	2538	CA	PHE	A	335	9.497	52.869	58.082	1.00	64.00	AAAA
ATOM	2539	CB	PHE	A	. 335	9.436	51.345	57.990	1.00	63.38	AAAA
ATOM	2540	CG	PHE	A	335	9.873			1.00		AAAA
ATOM	2541				335	11.222	50.734	56.351	1.00		AAAA
ATOM	2542				335	8.941			1.00		
							50.471				AAAA
ATOM	2543				335	11.635	50.310		1.00		AAAA
ATOM	2544				335	9.346					AAAA
ATOM	2545	cz	PHE	A	335	10.694	49.967	54. <b>1</b> 39	1.00	59.61	AAAA

ATOM	2546	С	PHE A	335	9.041	53.368	59.443	1.00 65.97	AAAA
ATOM	2547	ō	PHE A		8.180	52.782	60.099	1.00 67.11	AAAA
ATOM	2548	N	LYS A		9.653	54.483	59.831	1.00 67.69	AAAA
ATOM	2549	CA	LYS A		9.419	55.200	61.082	1.00 67.79	AAAA
ATOM	2550	CB	LYS A		9.392	56.711	60.782	1.00 71.31	AAAA
	2551		LYS A		8.296	57.142	59.800	1.00 73.33	AAAA
ATOM		CG					59.351	1.00 76.96	AAAA
MOTA	2552	CD	LYS F		8.427	58.604		_	AAAA
ATOM	2553	CE	LYS F		8.259	59.615	60.492	1.00 78.02	
ATOM	2554	NZ	LYS A		9.462	59.736	61.374	1.00 79.02	AAAA
ATOM	2555	С	LYS F		8.203	54.842	61.933	1.00 65.38	AAAA
ATOM	2556	0	LYS F		8.337	54.213	62.978	1.00 65.38	AAAA
ATOM	2557	N	ASN A		7.024	55.257	61.481	1.00 63.32	AAAA
MOTA	2558	CA	ASN A		5.778	55.047	62.214	1.00 62.21	AAAA
MOTA	2559	CB	ASN A	337	5.543	56.267	63.116	1.00 65.65	AAAA
ATOM	2560	CG	ASN A	337	4.519	56.019	64.203	1.00 69.14	AAAA
ATOM	2561	OD1	ASN A	337	4.755	55.234	65.126	1.00 71.04	AAAA
MOTA	2562	ND2	ASN A	337	3.373	56.695	64.107	1.00 70.06	AAAA
MOTA	2563	С	ASN A	337	4.669	54.947	61.169	1.00 60.61	AAAA
ATOM	2564	0	ASN A	337	3.614	55.577	61.290	1.00 60.03	AAAA
ATOM	2565	N	CYS A	338	4.930	54.153	60.136	1.00 58.76	AAAA
ATOM	2566	CA	CYS A	338	4.005	53.955	59.026	1.00 55.22	AAAA
ATOM	2567	С	CYS F		2.760	53.157	59.358	1.00 52.01	AAAA
ATOM	2568	0	CYS A		2.785	52.246	60.176	1.00 50.20	AAAA
ATOM	2569	СВ	CYS A		4.736	53.262	57.889	1.00 57.39	AAAA
ATOM	2570	SG	CYS F		6.414	53.917	57.642	1.00 62.46	AAAA
ATOM	2571	N	THR A		1.659	53.508	58.710	1.00 49.96	AAAA
ATOM	2572	CA	THR A		0.408	52.797	58.920	1.00 48.07	AAAA
	2573	CB	THR A		-0.763	53.768	59.194	1.00 48.20	AAAA
ATOM	2574					54.788	58.191	1.00 48.76	AAAA
ATOM			THR A		-0.783		60.559	1.00 49.44	AAAA
ATOM	2575		THR A		-0.621	54.405		1.00 45.32	AAAA
ATOM	2576	C	THR A		0.088	51.991	57.670		
ATOM	2577	0	THR A		-0.602	50.984	57.724	1.00 44.84	AAAA
ATOM	2578	N		A 340	0.630	52.431	56.546	1.00 44.28	AAAA
MOTA	2579	CA		A 340	0.374	51.786	55.273	1.00 44.61	AAAA
MOTA	2580	CB		A 340	-0.755	52.518	54.547	1.00 45.24	AAAA
MOTA	2581	OG		A 340	-0.560	52.469	53.149	1.00 46.61	AAAA
ATOM	2582	С		A 340	1.600	51.782	54.392	1.00 44.36	AAAA
MOTA	2583	0		A 340	2.301	52.789	54.292	1.00 46.75	AAAA
MOTA	2584	N		4 341	1.850	50.652	53.738	1.00 42.01	AAAA
MOTA	2585	CA		4 341	2.994	50.544	52.851	1.00 40.41	AAAA
ATOM	2586	CB		A 341	3.756	49.216	53.065	1.00 37.80	AAAA
ATOM	2587	CG2			4.968	49.165	52.173	1.00 34.26	AAAA
ATOM	2588	CG1			4.193	49.083	54.521	1.00 39.51	AAAA
ATOM	2589	CD1	ILE A	A 341	5.263	50.051	54.933	1.00 41.06	Aaaa
ATOM	2590	ĹC	ILE A	A 341	2.524	50.593	51.401	1.00 41.08	AAAA
MOTA	2591	0	ILE A	A 341	1.682	49.800	50.992	1.00 43.10	AAAA
MOTA	2592	N	SER A	A 342	3.043	51.537	50.628	1.00 40.94	AAAA
ATOM	2593	CA	SER A	A 342	2.684	51.605	49.221	1.00 41.01	AAAA
MOTA	2594	CB	SER A	A 342	2.682	53.040	48.696	1.00 41.60	AAAA
MOTA	2595	OG	SER A	A 342	1.492	53.697	49.098	1.00 49.05	AAAA
ATOM	2596	C	SER A	A 342	3.757	50.804	48.539	1.00 38.90	AAAA
ATOM	2597	0	SER A	A 342	4.822	51.322	48.200	1.00 40.62	AAAA
MOTA	2598	N	GLY A	A 343	3.475	49.522	48.368	1.00 36.28	AAAA
ATOM	2599	CA	GLY A	A 343	4.433	48.640	47.750	1.00 34.11	AAAA
ATOM	2600	C	GLY A	A 343	4.534	47.364	48.551	1.00 34.36	· AAAA
ATOM	2601	0	GLY Z	A 343	3.590	46.966	49.223	1.00 33.26	AAAA
ATOM	2602	N	ASP A	A 344	5.701	46.743	48.524	1.00 34.49	AAAA
ATOM	2603	CA	ASP A	A 344	5.863	45.476	49.203	1.00 35.59	AAAA
MOTA	2604	CB		A 344	6.245	44.424	48.162	1.00 34.97	AAAA
ATOM	2605	CG		A 344	5.631	44.710	46.810	1.00 35.02	AAAA
ATOM	2606		ASP I		6.381	44.982	45.848	1.00 31.97	AAAA
ATOM	2607		ASP 2		4.387	44.677	46.725	1.00 34.28	AAAA
ATOM	2608	C		A 344	6.884	45.451	50.319	1.00 35.60	AAAA
ATOM	2609	Ö		A 344	7.761	46.302	50.397	1.00 38.91	AAAA
ATOM	2610	N		A 345	6.767	44.446	51.174	1.00 33.46	AAAA
ATOM	2611	CA		A 345	7.715	44.262	52.239	1.00 32.32	AAAA
ATOM	2612	CB		A 345	7.018	44.312	53.592	1.00 32.32	AAAA
	2613	CG	•	A 345	6.672	45.730	54.047	1.00 33.43	AAAA
MOTA			LEU :		6.249			1.00 33.24	AAAA
MOTA	2614					45.719	55.505	1.00 31.24	AAAA
ATOM	2615		LEU .		7.897	46.617	53.856		AAAA
ATOM	2616	С		A 345	8.453	42.941	52.095	1.00 32.49	AAAA
ATOM	2617	0		A 345	7.844	41.876	52.020	1.00 35.05	AAAA AAAA
ATOM	2618	N		A 346		43.013	52.019	1.00 29.99	AAAA
ATOM	2619	CA		A 346 A 346		41.809	51.947	1.00 29.38	AAAA
ATOM	2620	CB	птэ.	A J40	11.564	41.840	50.781	1.00 28.89	ECT-17.

ATOM	2621	CG	HIS A	346	10.937	42.083	49.450	1.00 32.29	AAAA
ATOM	2622	CD2	HIS A	346	9.970	42.946	49.060	1.00 33.49	AAAA
ATOM	2623		HIS A		11.366	41.442	48.306	1.00 30.10	AAAA
ATOM	2624		HIS A		10.691	41.904			
ATOM	2625		HIS A				47.270	1.00 29.80	AAAA
					9.839	42.818	47.699	1.00 31.09	AAAA
ATOM	2626	С	HIS A		11.419	41.718	53.224	1.00 27.99	AAAA
ATOM	2627	0	HIS A		11.975	42.702	53.688	1.00 27.37	AAAA
MOTA	2628	N	ILE A	347	11.510	40.530	53.785	1.00 27.84	AAAA
ATOM	2629	CA	ILE A	347	12.330	40.305	54.954	1.00 27.27	AAAA
ATOM	2630	CB	ILE A	347	11.476	40.161	56.220	1.00 27.42	AAAA
ATOM	2631	CG2	ILE A	347	12.360	39.847	57.421	1.00 25.35	AAAA
ATOM	2632		ILE A		10.726	41.464	56.471	1.00 24.20	AAAA
ATOM	2633		ILE A		9.633			1.00 24.20	
ATOM						41.346	57.477		AAAA
	2634	C	ILE A		13.090	39.017	54.676	1.00 27.66	AAAA
MOTA	2635	0	ILE A		12.556	37.928	54.845	1.00 28.43	AAAA
ATOM	2636	N	LEU A		14.326	39.149	54.208	1.00 28.39	AAAA
ATOM	2637	CA	LEU A		15.163	37.992	53.903	1.00 29.27	AAAA
ATOM	2638	CB	LEU A	348	15.856	38.193	52.561	1.00 28.21	AAAA
ATOM	2639	CG	LEU A	348	14.996	38.654	51.393	1.00 25.65	AAAA
ATOM	2640	CD1	LEU A	348	15.819	38.645	50.120	1.00 24.40	AAAA
MOTA	2641		LEU A		13.798	37.731	51.268	1.00 28.01	AAAA
ATOM	2642	С	LEU A		16,226	37.740	54.978	1.00 32.35	AAAA
ATOM	2643	Ö	LEU A				55.801		
					16.521	38.612		1.00 32.34	AAAA
ATOM	2644	N	PRO A		16.822	36.538	54.983	1.00 34.16	AAAA
ATOM	2645	CD	PRO A		16.666	35.428	54.031	1.00 35.80	AAAA
MOTA	2646	CA	PRO A	349	17.850	36.220	55.977	1.00 37.07	AAAA
ATOM	2647	CB	PRO A	349	18.287	34.802	55.582	1.00 37.04	AAAA
ATOM	2648	CG	PRO A	349	18.001	34.731	54.139	1.00 36.65	AAAA
ATOM	2649	С	PRO A	349	19.015	37.222	56.023	1.00 38.67	AAAA
ATOM	2650	0	PRO A		19.639	37.406	57.063	1.00 40.39	AAAA
ATOM	2651	N	VAL A		19.286				
ATOM						37.879	54.901	1.00 39.75	AAAA
	2652	CA	VAL A		20.364	38.856	54.828	1.00 39.94	AAAA
ATOM	2653	CB	VAL A		20.490	39.487	53.385	1.00 42.49	AAAA
ATOM	2654		VAL A		19.175	40.184	52.976	1.00 39.36	AAAA
ATOM	2655	CG2	VAL A	350	21.671	40.470	53.339	1.00 38.55	AAAA
MOTA	2656	С	VAL A	350	20.157	39.964	55.842	1.00 40.06	AAAA
ATOM	2657	0	VAL A	350	21.106	40.438	56.435	1.00 42.05	AAAA
MOTA	2658	N	ALA A	351	18.914	40.371	56.045	1.00 39.22	AAAA
ATOM	2659	CA	ALA A		18.620	41.427	57.001	1.00 40.03	AAAA
ATOM	2660	CB	ALA A		17.126				
ATOM	2661					41.605	57.121	1.00 36.83	AAAA
		С	ALA A		19.221	41.163	58.394	1.00 41.77	AAAA
ATOM	2662	0	ALA A		19.630	42.094	59.090	1.00 42.11	AAAA
MOTA	2663	N	PHE A		19.282	39.899	58.798	1.00 42.85	AAAA
ATOM	2664	CA	PHE A	352	19.804	39.570	60.113	1.00 42.01	AAAA
ATOM	2665	CB	PHE A	352	19.005	38.412	60.716	1.00 39.56	AAAA
ATOM	2666	CG	PHE A	352	17.524	38.678	60.768	1.00 38.94	AAAA
ATOM	2667	CD1	PHE A	352	16.676	38.181	59.777	1.00 38.43	AAAA
ATOM	2668		PHE A		16.990	39.497	61.747	1.00 35.12	AAAA
ATOM	2669		PHE A						
					15.321			1.00 36.32	AAAA
MOTA	2670		PHE A		15.639	39.824	61.738	1.00 37.65	AAAA
MOTA	2671	CZ	PHE A		14.804				AAAA
ATOM	2672	С	PHE A		21.294	39.270	60.142	1.00 43.28	AAAA
ATOM	2673	0	PHE A		21.932	39.432	61.179	1.00 44.71	AAAA
ATOM	2674	N	ARG A		21.852	38.856	59.011	1.00 42.78	AAAA
ATOM	2675	CA	ARG A	353	23.277	38.556	58.935	1.00 43.53	AAAA
ATOM	2676	CB	ARG A	353	23.560	37.514	57.852	1.00 44.64	AAAA
ATOM	2677	CG	ARG A		23.098	36.104	58.191	1.00 50.48	AAAA
ATOM	2678	CD	ARG A		23.567	35.099	57.151	0.01 50.59	AAAA
ATOM	2679	NE	ARG A		23.424				
ATOM	2680	CZ	ARG A			33.722	57.617	0.01 52.43	AAAA
					24.076	33.214	58.659	0.01 53.05	AAAA
ATOM	2681		ARG A		24.921	33.969			AAAA
ATOM	2682		ARG A		23.886	31.950	59.011	0.01 53.57	AAAA
MOTA	2683	С	ARG A		24.078	39.805	58.607	1.00 43.97	AAAA
MOTA	2684	0	ARG A	353	25.260	39.893	58.925	1.00 44.34	AAAA
ATOM	2685	N	GLY A	354	23.416	40.779	57.993	1.00 43.06	AAAA
ATOM	2686	CA	GLY A		24.096	41.981	57.564	1.00 41.24	AAAA
ATOM	2687	C	GLY A		24.672	41.593			
ATOM	2688	Ö	GLY A				56.215	1.00 41.66	AAAA
ATOM	2689				24.808	40.413	55.924	1.00 42.24	AAAA
		N	ASP A		25.012	42.557	55.378	1.00 43.30	AAAA
ATOM	2690	CA	ASP A		25.563	42.219	54.078	1.00 45.56	AAAA
ATOM	2691	CB	ASP A		24.478	42.356	53.013	1.00 44.44	AAAA
MOTA	2692	CG	ASP A	355	24.975	42.012	51.634	1.00 44.27	AAAA
MOTA	2693	OD1	ASP A	355	25.553	40.912	51.465	1.00 43.68	AAAA
ATOM	2694	OD2	ASP A	355	24.780	42.840	50.722	1.00 44.02	AAAA
ATOM	2695	С	ASP A		26.764	43.085	53.706	1.00 48.15	AAAA
					201104		55.700	40.1J	1 11 11 11

ATOM	2696	0	ASP	70	355	26.643	44.302	53.595	1.00 48.77	AAAA
ATOM	2697	N	SER	Α	356	27.916	42.449	53.499	1.00 49.79	AAAA
ATOM	2698	CA	SER	Ά	356	29.137	43.165	53.137	1.00 51.19	AAAA
								53.060	1.00 51.92	AAAA
MOTA	2699	CB	SER			30.328	42.205			
ATOM	2700	OG	SER	Α	356	30.234	41.350	51.933	0.01 51.18	AAAA .
ATOM	2701	C	SER	73	356	29.028	43.895	51.806	1.00 52.03	AAAA
									**	
ATOM	2702	0	SER	Α	356	29.094	45.119	51.758	1.00 53.64	AAAA
ATOM	2703	N	PHE	70	357	28.867	43.128	50.732	1.00 52.39	AAAA
ATOM	2704	CA	PHE	Α	357	28.774	43.659	49.373	1.00 50.80	AAAA
MOTA	2705	CB	PHE	Δ	357	28.286	42.571	48.426	1.00 49.93	AAAA
ATOM	2706	CG	PHE	А	357	29.193	41.379	48.363	1.00 48.68	AAAA
ATOM	2707	CD1	PHE	Δ	357	30.194	41.302	47.401	1.00 48.16	AAAA
								49.286	1.00 47.45	AAAA
MOTA	2708	CD2	PHE	А	351	29.064	40.343			
ATOM	2709	CE1	PHE	Α	357	31.059	40.203	47.357	1.00 48.62	AAAA
	2710	CE2				29.920	39.246	49.254	1.00 47.15	AAAA
ATOM										
ATOM	2711	CZ	PHE	Α	357	30.918	39.174	48.289	1.00 48.58	AAAA
ATOM	2712	С	PHE	A	357	27.869	44.854	49.238	1.00 50.49	AAAA
									1.00 51.56	AAAA
MOTA	2713	0	PHE	А	351	27.931	45.569	48.240		
ATOM	2714	N	THR	Α	358	27.042	45.081	50.251	1.00 50.56	AAAA
	2715	CA	THR			26.096	46.178	50.215	1.00 49.80	AAAA
ATOM										
ATOM	2716	CB	THR	Α	358	24.665	45.599	50.146	1.00 50.48	AAAA
ATOM	2717	.OG1	THR	А	358	23.849	46.427	49.308	1.00 51.68	AAAA
										· AAAA
ATOM	2718	CG2	THR	А	358	24.055	45.489	51.542	1.00 50.09	
ATOM	2719	С	THR	Α	358	26.234	47.153	51.389	1.00 49.88	AAAA
	2720					25.441	48.092	51.516	1.00 49.44	AAAA
ATOM	2720	0			358					
MOTA	2721	N	HIS	A	359	27.242	46.921	52.235	1.00 50.83	AAAA
MOTA	2722	CA	UTC	70	359	27.538	47.760	53.406	1.00 51.50	AAAA
ATOM	2723	CB	HIS	Α	359	27.940	49.161	52.961	1.00 55.37	AAAA
ATOM	2724	CG	HTS	Δ	359	29.125	49.183	52.052	1.00 59.82	AAAA
										AAAA
MOTA	2725	CD2	HTZ	А	359	30.355	48.630	52.178	1.00 62.01	
ATOM	2726	ND1	HIS	Α	359	29.116	49.829	50.834	1.00 61.00	AAAA
						30.291	49.673	50.249	1.00 64.63	AAAA
ATOM	2727		HIS							
ATOM	2728	NE2	${\tt HIS}$	Α	359	31.060	48.949	51.044	1.00 65.51	AAAA
ATOM	2729	С	HTC	Δ	359	26.397	47.882	54.397	1.00 51.39	AAAA
										AAAA
ATOM	2730	0	HIS	А	359	26.082	48.981	54.862	1.00 51.24	
ATOM	2731	N	THR	Α	360	25.783	46.755	54.734	1.00 50.38	AAAA
						24.672	46.762	55.661	1.00 49.62	AAAA
MOTA	2732	CA			360					
ATOM	2733	CB	THR	Α	360	23.374	46.278	54.966	1.00 48.68	AAAA
ATOM	2734	OG1	THR	Δ	360	23.104	47.112	53.837	1.00 46.59	AAAA
MOTA	2735	CG2	THR	Α	360	22.183	46.358	55.919	1.00 50.02	AAAA
MOTA	2736	С	THR	Ά	360	25.001	45.858	56.836	1.00 49.92	AAAA
							44.715	56.650	1.00 51.23	AAAA
MOTA	2737	0	THK	А	360	25.399				
ATOM	2738	N	PRO	Α	361	24.869	46.377	58.066	1.00 49.72	AAAA
	2739	CD			361	24.733	47.814	58.382	1.00 49.73	AAAA
MOTA										
ATOM	2740	CA	PRO	Α	361	25.154	45.603	59.276	1.00 49.05	AAAA
ATOM	2741	CB	PRO	Δ	361	25.575	46.676	60.265	1.00 49.54	AAAA
										AAAA
MOTA	2742	CG			361	24.678	47.821	59.894	1.00 49.15	
ATOM	2743	С	PRO	Α	361	23.918	44.860	59.747	1.00 50.01	AAAA
			DDA	71	261	22.799	45.229	59.399	1.00 50.60	AAAA
MOTA	2744	0			361					
MOTA	2745	N	PRO	Α	362	24.097	43.813	60.562	1.00 50.77	AAAA
MOTA	2746	CD	PRO	A	362	25.332	43.293	61.175	1.00 50.01	AAAA
						22.932	43.070	61.040	1.00 51.10	AAAA
ATOM	2747	CA			362					
MOTA	2748	CB	PRO	Α	362	23.505	42.238	62.179	1.00 49.45	AAAA
ATOM	2749	CG	PRO	Δ	362	24.882	41.952	61.712	1.00 49.56	AAAA
							44.011	61.513	1.00 52.33	AAAA
ATOM	2750	С			362	21.827				
ATOM	2751	0	PRO	Α	362	22.078	45.179	61.805	1.00 52.63	AAAA
ATOM	2752	N			363	20.606	43.492	61.568	1.00 52.86	AAAA
ATOM	2753	CA	LEU	А	363	19.453	44.252	62.019	1.00 52.54	AAAA
ATOM	2754	CB	LEU	А	363	18.258	43.999	61.101	1.00 51.57	AAAA
							44.587	61.523	1.00 50.20	AAAA
MOTA	2755	CG			363	16.915				
MOTA	2756	CD1	LEU	A	363	16.913	46.069	61.219	1.00 50.68	AAAA
	2757				363	15.775	43.889	60.791	1.00 48.63	AAAA
ATOM										
MOTA	2758	С	LEU	A	363	19.149	43.718	63.404	1.00 54.65	AAAA
MOTA	2759	0	LEU	А	363	19.158	42.510	63.622	1.00 57.22	AAAA
										AAAA
MOTA	2760	N			364	18.896	44.605	64.351	1.00 56.01	
ATOM	2761	CA	ASP	Α	364	18.600	44.164	65.698	1.00 56.55	AAAA
		CB				18:763	45.322	66.686	1.00 60.61	AAAA
MOTA	2762				364					
ATOM	2763	CG	ASP	Α	364	18.680	44.869	68.130	1.00 63.59	AAAA
MOTA	2764	מח	ASP	Δ	364	17.574	44.499	68.588	1.00 63.94	. AAAA
										AAAA
MOTA	2765	OD2			364	19.732		68.801	1.00 66.28	
MOTA	2766	С	ASP	A	364	17.172	43.656	65.712	1.00 55.38	AAAA
						16.234	44.404	65.455	1.00 55.75	AAAA
ATOM	2767	0			364					
ATOM	2768	N	PRO	A	. 365	16.989	42.367	66.004	1.00 53.91	AAAA
ATOM	2769	CD			365	17.989	41.347	66.368	1.00 53.55	AAAA
						•			1.00 53.19	AAAA
ATOM	2770	CA	PKC	, А	365	15.647	41.802	66.035	1.00 00.19	1444

ATOM	2771	CB	PRO	Α	365	15.845	40.531	66.849	1.00	51.82	AAAA
ATOM	2772	CG	PRO	Α	365	17.165	40.064	66.367	1.00	50.75	AAAA
ATOM	2773	С	PRO	Α	365	14.616	42.739	66.645	1.00	53.49	AAAA
ATOM	2774	0	PRO			13.509	42.880	66.127		53.40	AAAA
MOTA	2775	N	GLN			14.990	43.400	67.734		53.99	
ATOM	2776	CA	GLN								AAAA
						14.064	44.296	68.420		54.39	AAAA
ATOM	2777	CB	GLN			14.738	44.923	69.642		55.64	AAAA
ATOM	2778	CG	GLN			15.253	43.904	70.652	1.00	58.00	AAAA
MOTA	2779	CD	GLN			15.900	44.556	71.858	0.01	58.01	AAAA
ATOM	2780	OE1	GLN	Α	366	15.260	45.316	72.585	0.01	58.47	AAAA
MOTA	2781	NE2	GLN	Α	366	17.176	44.263	72.076	0.01	58.48	AAAA
ATOM	2782	C	GLN	А	366	13.535	45.388	67.510		52.96	AAAA
ATOM	2783	Ó	GLN			12.428	45.885	67.697		51.91	AAAA
ATOM	2784	N	GLU			14.329					
ATOM	2785	CA					45.740	66.513		52.35	AAAA
			GLU			13.968	46.790	65.577		52.97	AAAA
ATOM	2786	CB	GLU			15.106	46.989	64.583		53.99	AAAA
ATOM	2787	CG	GLU			15.246	48.411	64.097	1.00	56.34	AAAA
ATOM	2788	CD	GLU	A	367	15.890	49.311	65.122	1.00	54.53	AAAA
MOTA	2789	OE1	GLU	Α	367	17.056	49.056	65.483	1.00	55.39	AAAA
MOTA	2790	OE2	GLU	Α	367	15.230	50.268	65.562	1.00	53.72	AAAA
ATOM	2791	С	GLU	Α	367	12.666	46.532	64.813		52.61	AAAA
MOTA	2792	0	GLU			11.933	47.467	64.497		52.41	AAAA
ATOM	2793	N	LEU			12.383	45.268				
ATOM	2794	CA	LEU					64.520		51.52	AAAA
						11.184	44.907	63.777		50.41	AAAA
ATOM	2795	CB	TEU			11.084	43.390	63.641		47.61	AAAA
ATOM	2796	CG	LEU			12.121	42.696	62.768	1.00	45.79	AAAA
ATOM	2797		LEU			12.069	41.210	63.028	1.00	44.72	AAAA
ATOM	2798	CD2	LEU	Α	368	11.867	43.013	61.309	1.00	44.64	AAAA
MOTA	2799	C	LEU	Α	368	9.899	45.422	64.402	1.00	51.72	AAAA
ATOM	2800	0	LEU	Α	368	8.895	45.599	63.713	1.00	53.14	AAAA
MOTA	2801	N	ASP			9.916	45.664	65.705		52.93	AAAA
ATOM	2802	CA	ASP			8.710	46.129	66.371		53.55	AAAA
ATOM	2803	CB	ASP			8.935	46.196	67.881			
ATOM	2804	CG	ASP							57.03	AAAA
						9.127	44.813	68.496		59.80	AAAA
ATOM	2805		ASP			8.453	43.858	68.041		61.33	AAAA
ATOM	2806		ASP			9.939	44.678	69.434		61.64	AAAA
ATOM	2807	Ç	ASP			8.231	47.455	65.817	1.00	52.70	AAAA
ATOM	2808	0	ASP			7.122	47.899	66.094	1.00	52.18	AAAA
ATOM	2809	N	ILE	Α	370	9.074	48.075	65.006	1.00	52.34	AAAA
ATOM	2810	CA	ILE	Α	370	8.729	49.333	64.377	1.00	52.45	AAAA
ATOM	2811	CB	ILE	Α	370	9.890	49.829	63.504	1.00	51.40	AAAA
ATOM	2812	CG2	ILE	Α	370	9.425	50.958	62.611		52.86	AAAA
ATOM	2813		ILE			11.057	50.262	64.391		52.35	AAAA
ATOM	2814		ILE			12.249	50.847	63.629		51.37	
ATOM	2815	C			370						AAAA
ATOM						7.493	49.136	63.493		53.66	AAAA
	2816	0			370	6.616	50.000	63.419		54.79	AAAA
ATOM	2817	N	LEU			7.429	47.983	62.835	1.00	53.45	AAAA
ATOM	2818	CA	LEU			6.334	47.655	61.934	1.00	52.47	AAAA
ATOM	2819	CB	LEU	Α	371	6.669	46.360	61.200	1.00	51.56	AAAA
ATOM	2820	CG	LEU	Α	371	8.017	46.327	60.471	1.00	50.65	AAAA
MOTA	2821	CD1	LEU	Α	371	8.307	44.921	60.008	1.00	49.90	AAAA
ATOM	2822	CD2	LEU	Α	371	7.998	47.273	59.285		51.95	AAAA
ATOM	2823	С	LEU			4.937	47.536	62.547		52.88	AAAA
ATOM	2824	o	LEU			3.961	47.454	61.808		54.31	AAAA
ATOM	2825	N			372						
ATOM	2826	CA	LYS			4.834	47.535	63.876		53.48	AAAA
						3.540	47.400	64.567		53.15	AAAA
ATOM	2827	CB			372	3.726	47.434	66.090		56.18	AAAA
ATOM	2828	CG			372	4.445	46.231	66.709		60.98	AAAA
ATOM	2829	CD	LYS	Α	372	4.345	46.278	68.247	1.00	63.27	AAAA
ATOM	2830	CE	LYS	Α	372	5.035	45.090	68.93 <b>6</b>	1.00	64.72	AAAA
ATOM	2831	NZ	LYS	Α	372	4.965	45.151	70.446	1.00	62.26	AAAA
ATOM	2832	С	LYS	A	372	2.479	48.438	64.196		52.63	AAAA
ATOM	2833	0			372	1.307	48.290	64.539		51.81	AAAA
ATOM	2834	N			373	2.885	49.496	63.511		52.31	AAAA
ATOM	2835	CA			373	1.947				52.28	AAAA
ATOM	2836	CB					50.535	63.110			
					373	2.630	51.916	63.106		52.37	AAAA
ATOM	2837		THR			3.964	51.785	62.592		54.63	AAAA
ATOM	2838		THR			2.674	52.496	64.506		49.59	AAAA
ATOM	2839	С			373	1.372	50.262	61.720	1.00	52.65	AAAA
MOTA	2840	0			373	0.337	50.815	61.351	1.00	54.04	AAAA
MOTA	2841	N	VAL	Α	374	2.057	49.413	60.956	1.00	51.58	AAAA
ATOM	2842	CA			374	1.635	49.049	59.607		49.40	AAAA
ATOM	2843	CB			374	2.665	48.144	58.923		49.73	AAAA
ATOM	2844		VAL			2.268	47.915	57.484		47.14	AAAA
ATOM	2845		VAL			4.057		59.033		49.10	AAAA
			72111	1.7	3.4	3.007	48.753	59.055	1.00	30.10	* n-1/-7/-7

ATOM	2846	C	VAL A	374	0.318	48.293	59.640	1.00 49.48	AAAA
ATOM	2847		VAL A		0.257	47.135	60.063	1.00 48.17	AAAA
ATOM	2848	N	LYS A	375	-0.740	48.956	59.192	1.00 49.06	AAAA
ATOM	2849	CA	LYS A	375	-2.050	48:341	59.174	1.00 47.47	AAAA
ATOM	2850	CB	LYS A	375	-3.095	49.343	59.652	1.00 47.94	AAAA
ATOM	2851	CG	LYS A	375	-3.064	49.527	61.161	1.00 50.96	AAAA
MOTA	2852		LYS A		-4.238	50.353	61.656	1.00 55.61	AAAA
MOTA	2853	CE	LYS A		-4.481	50.142	63.149	1.00 57.99 1.00 59.93	AAAA AAAA
ATOM	2854	NZ	LYS A		-4.854	48.727	63.455	1.00 45.46	AAAA
MOTA	2855	C	LYS F		-2.423	47.774	57.813 57.726	1.00 45.40	AAAA
MOTA	2856	0	LYS F		-3.285	46.901 48.253		1.00 43.54	AAAA
ATOM	2857	N	GLU A		-1.769 -2.063	47.756	55.419	1.00 42.32	AAAA
ATOM	2858	CA	GLU F		-3.228	48.538	54.784	1.00 45.81	AAAA
MOTA	2859 2860	CB CG	GLU A		-2.825	49.678	53.826	1.00 50.81	AAAA
ATOM ATOM	2861	CD	GLU A		-4.016	50.249	53.051	1.00 52.44	AAAA
ATOM	2862		GLU F		-4.956	50.756	53.702	1.00 54.15	AAAA
ATOM	2863		GLU A		-4.014	50.191	51.798	1.00 52.03	AAAA
ATOM	2864	С		A 376	-0.867	47.790	54.489	1.00 39.02	AAAA
ATOM	2865	0	GLU A	A 376	-0.021	48.668	54.586	1.00 38.72	AAAA
MOTA	2866	N	ILE A	A 377	-0.817	46.813	53.589	1.00 36.15	AAAA
ATOM	2867	CA	ILE A	A 377	0.247	46.690	52.597	1.00 34.67	AAAA
ATOM	2868	CB	ILE A	A 377	1.089	45.415	52.845	1.00 33.22	AAAA
ATOM	2869	CG2	ILE A	A 377	2.156	45.274	51.767	1.00 30.67	AAAA
MOTA	2870		ILE A		1.704	45.467	54.249	1.00 31.05	AAAA AAAA
MOTA	2871		ILE A		2.476	44.219	54.656	1.00 27.03 1.00 34.43	AAAA
ATOM	2872	C		A 377	-0.408	46.587	51.212	1.00 34.43	AAAA
MOTA	2873	0		A 377	-1.129	45.625 47.560	50.947 50.333	1.00 33.00	AAAA
ATOM	2874	N		A 378	-0.157 -0.765	47.534	49.005	1.00 33.19	AAAA
ATOM	2875	CA CB		A 378 A 378	-0.765	48.911	48.300	1.00 33.39	AAAA
ATOM ATOM	2876 2877			A 378	0.701	49.231	48.018	1.00 33.93	AAAA
ATOM	2878			A 378	-1.262	49.985	49.173	1.00 30.18	AAAA
ATOM	2879	C		A 378	-0.194	46.457	48.083	1.00 34.40	AAAA
ATOM	2880	Ō		A 378	-0.912	45.882	47.270	1.00 35.39	AAAA
ATOM	2881	N		A 379	1.098	46.181	48.215	1.00 35.20	AAAA
ATOM	2882	CA	GLY .	A 379	1.722	45.160	47.395	1.00 33.28	AAAA
MOTA	2883	C	GLY	A 379	1.634	43.807	48.074	1.00 33.66	AAAA
ATOM	2884	0	GLY	A 379	0.541	43.344	48.372	1.00 32.90	AAAA
MOTA	2885	N		A 380	2.781	43.177	48.324	1.00 33.30	дада дада
MOTA	2886	CA		A 380	2.819	41.877	48.981	1.00 31.58 1.00 29.54	AAAA
MOTA	2887	CB		A 380	3.160	40.799	47.957 47.387	1.00 29.03	AAAA
ATOM	2888	CG		A 380	4.555	40.903	48.049	1.00 28.62	AAAA
MOTA	2889			A 380	5.642 4.782	41.532	46.168	1.00 29.50	AAAA
ATOM	2890			A 380 A 380	6.941	40.372	47.505	1.00 26.20	AAAA
ATOM ATOM	2891 2892			A 380	6.082	41.581	45.614	1.00 29.64	AAAA
ATOM	2893	CZ		A 380	7.159		46.290	1.00 26.34	AAAA
ATOM	2894	c		A 380	3.810		50.163	1.00 32.87	AAAA
MOTA	2895	0		A 380	4.696	42.664	50.298	1.00 32.63	AAAA
ATOM	2896	N	LEU	A 381	3.622			1.00 32.07	AAAA
ATOM	2897	CA	LEU	A 381	4.464			1.00 30.36	AAAA
ATOM	2898	CB		A 381	3.591		53.442	1.00 29.96	AAAA . AAAA
ATOM	2899	CG		A 381	4.144		54.749	1.00 30.63 1.00 31.13	AAAA
ATOM	2900			A 381	5.472		55.107	1.00 31.13	AAAA
MOTA	2901			A 381	3.116		55.858 51.983	1.00 29.63	AAAA
MOTA	2902	C		A 381	5.206 4.589		51.965	1.00 30.25	AAAA
MOTA	2903	0		A 381	4.589 6.526			1.00 27.52	AAAA
ATOM	2904	N		A 382	7.347			1.00 26.93	AAAA
MOTA	2905	CA		A 382 A 382	8.148		50.350	1.00 22.94	AAAA
MOTA	2906 2907	CB CG		A 382	9.303			1.00 20.87	AAAA
MOTA MOTA	2908			A 382	8.776			1.00 24.10	AAAA
ATOM	2909			A 382	10.052			1.00 16.01	AAAA
ATOM	2910	C		A 382	8.313	_		1.00 29.42	AAAA
ATOM	2911	Ö		A 382	9.223		52.990	1.00 28.34	AAAA
MOTA	2912	N		A 383	8.113	_		1.00 29.60	AAAA
ATOM	2913			A 383					AAAA
ATOM	2914	CB	ILE	A 383	8.163				AAAA
ATOM	2915	CG2		A 383					AAAA
MOTA	2916			A 383					AAAA AAAA
MOTA	2917			A 383					AAAA
ATOM	2918			A 383					AAAA
MOTA	2919			A 383					AAAA
ATOM	2920	N	GLN	A 384	11.037	35.483	J-1.200		

ATOM	2921	CA	GLN A	384	11.898	34.314	54.114	1.00 32.20	AAAA
ATOM	2922	CB	GLN A	384	12.737	34.423	52.840	1.00 31.91	AAAA
ATOM	2923	CG	GLN A					1.00 31.54	
					11.921	34.449	51.570		AAAA
ATOM	2924	CD	GLN A		12.779	34.311	50.334	1.00 34.67	Aaa
ATOM	2925	OE1	GLN A	384	12.329	34.558	49.221	1.00 36.67	AAAA
ATOM	2926	NE2	GLN A	384	14.021	33.907	50.522	1.00 34.13	AAAA
ATOM	2927	С	GLN A		12.809	34.117	55.331	1.00 32.74	AAAA
ATOM	2928	Ö							
			GLN A		13.576	33.153	55.393	1.00 33.81	AAAA
ATOM	2929	N	ALA A		12.703	35.013	56.308	1.00 33.98	AAAA
ATOM	2930	CA	ALA A	385	13.514	34.918	57.526	1.00 35.51	AAAA
MOTA	2931	CB	ALA A	385	14.929	35.421	57.252	1.00 34.58	AAAA
ATOM	2932	С	ALA A		12.885	35.700	58.675	1.00 36.69	AAAA
	2933								
ATOM		0	ALA A		12.213	36.708	58.460	1.00 38.44	AAAA
ATOM	2934	N	TRP A		13.083	35.220	59.897	1.00 37.42	AAAA
ATOM	2935	CA	TRP A	386	12.541	35.887	61.075	1.00 36.93	AAAA
ATOM	2936	CB	TRP A	386	11.221	35.251	61.492	1.00 33.19	AAAA
ATOM	2937	CG	TRP A		10.308	36.173	62.260	1.00 31.66	
									AAAA
ATOM	2938		TRP A		9.857	37.473	61.850	1.00 30.89	AAAA
ATOM	2939	CE2	TRP A	386	8.975	37.943	62.839	1.00 29.81	AAAA
ATOM	2940	CE3	TRP A	386	10.112	38.281	60.737	1.00 31.88	AAAA
ATOM	2941		TRP A		9.699	35.919	63.454	1.00 31.89	
									AAAA
ATOM	2942	NE1	TRP A		8.894	36.980	63.810	1.00 31.64	AAAA
ATOM	2943	CZ2	TRP A	386	8.345	39.185	62.749	1.00 32.35	AAAA
ATOM	2944	CZ3	TRP A	386	9.485	39.518	60.653	1.00 32.61	AAAA
ATOM	2945	CH2	TRP A	386	8.613	39.956	61.651	1.00 29.96	AAAA
ATOM	2946	C	TRP A						
					13.555	35.729	62.199	1.00 40.81	AAAA
ATOM	2947	0	TRP A		14.349	34.794	62.191	1.00 40.29	AAAA
ATOM	2948	N	PRO A	387	13.555	36.648	63.179	1.00 44.46	AAAA
ATOM	2949	CD	PRO A	387	12.795	37.898	63.345	1.00 44.75	AAAA
ATOM	2950	CA	PRO A		14.528	36.493	64.260	1.00 47.07	AAAA
ATOM	2951	CB	PRO A		14.150	37.607	65.222	1.00 46.83	AAAA
ATOM	2952	CG	PRO A	387	13.685	38.674	64.296	1.00 47.11	AAAA
ATOM	2953	C	PRO A	387	14.429	35.108	64.884	1.00 49.67	AAAA
ATOM	2954	0	PRO A	387	13.345	34.626	65.211	1.00 48.87	AAAA
ATOM	2955	N	GLU A		15.590				
						34.486	65.027	1.00 53.59	AAAA
MOTA	2956	CA	GLU A		15.745	33.147	65.571	1.00 57.22	AAAA
ATOM	2957	CB	GLU A	388	17.225	32.923	65.921	1.00 59.80	AAAA
ATOM	2958	CG	GLU A	388	18.196	32.910	64.718	1.00 62.49	AAAA
ATOM	2959	CD	GLU A		18.372	34.269	64.008	1.00 65.03	AAAA
ATOM	2960		GLU A						
					19.161	34.318	63.037	1.00 66.51	AAAA
ATOM	2961		GLU A		17.744	35.282	64.399	1.00 65.04	AAAA
ATOM	2962	Ç	GLU A	388	14.862	32.770	66.768	1.00 58.89	AAAA
MOTA	2963	0	GLU A	388	14.222	31.708	66.757	1.00 59.31	AAAA
ATOM	2964	N	ASN A		14.818	33.617	67.795	1.00 59.06	AAAA
ATOM			ASN A						
	2965	CA			14.016	33.296	68.976	1.00 59.08	AAAA
ATOM	2966	CB	ASN A	389	14.813	33.549	70.261	1.00 60.84	AAAA
ATOM	2967	CG	ASN A	389	15.884	32.497	70.500	1.00 63.48	AAAA
ATOM	2968	OD1	ASN A	389	15.634	31.293	70.356	1.00 63.01	AAAA
ATOM	2969		ASN A		17.081			1.00 63.98	AAAA
ATOM	2970		ASN A						
		C			12.659	33.967	69.105	1.00 57.96	AAAA
MOTA	2971	0	ASN A		12.236	34.297	70.209	1.00 57.66	AAAA
ATOM	2972	N	ARG A	390	11.980	34.185	67.986	1.00 56.49	AAAA
ATOM	2973	CA	ARG A	390	10.649	34.768	68.036	1.00 54.65	AAAA
ATOM	2974	CB	ARG A	390	10.553	35.995	67.150	1.00 56.18	AAAA
ATOM	2975	CG	ARG A						
					11.365	37.140	67.676	1.00 59.88	AAAA
ATOM	2976	CD	ARG A		10.779	38.453	67.247	1.00 63.03	AAAA
MOTA	2977	NE	ARG A	390	11.626	39.559	67.667	1.00 66.68	AAAA
MOTA	2978	CZ	ARG A	390	11.227	40.824	67.730	1.00 67.99	AAAA
MOTA	2979		ARG A		9.982	41.152	67.402	1.00 68.02	AAAA
ATOM									
	2980		ARG A		12.079	41.761	68.123	1.00 68.55	AAAA
MOTA	2981	С	ARG A	390	9.648	33.713	67.603	1.00 52.37	AAAA
MOTA	2982	0	ARG A	390	9.680	33.215	66.484	1.00 53.42	AAAA
ATOM	2983	N	THR A	391	8.769	33.372	68.526	1.00 50.09	AAAA
ATOM	2984	CA	THR A		7.756	32.355	68.325	1.00 47.66	AAAA
ATOM	2985	CB	THR A		6.998	32.137	69.658	1.00 46.75	AAAA
ATOM	2986		THR A		7.531	30.974	70.295	1.00 44.71	AAAA
ATOM	2987	CG2	THR A	391	5.489	32.002	69.451	1.00 46.77	AAAA
MOTA	2988	С	THR A		6.783	32.588	67.171	1.00 46.02	AAAA
ATOM	2989	Ö	THR A		6.329	31.631	66.551	1.00 45.22	AAAA
ATOM	2990	N	ASP A		6.461	33.845	66.884	1.00 43.37	AAAA
ATOM	2991	CA	ASP A		5.549	34.149	65.790	1.00 42.78	AAAA
ATOM	2992	CB	ASP A	392	4.097	34.061	66.259	1.00 42.82	AAAA
ATOM	2993	CG	ASP A		3.724	35.140	67.261	1.00 46.41	AAAA
ATOM	2994		ASP A		2.536	35.167			AAAA
							67.649	1.00 48.69	
ATOM	2995	002	ASP A	. 392	4.587	35.954	67.666	1.00 46.65	AAAA

ATOM	2996	С	ASP	А	392	5.836	35.516	65.182	1.00	41.53	AAAA
ATOM	2997	0	ASP	А	392	6.817	36.158	65.539	1.00	42.13	AAAA
						4.992	35.956	64.257	1.00		AAAA
ATOM	2998	N	LEU								
ATOM	2999	CA	LEU	Α	393	5.203	37.241	63.592	1.00	39.03	AAAA
ATOM	3000	CB	LEU	Α	393	4.708	37.160	62.144	1.00	37.42	AAAA
ATOM	3001	CG	LEU	Δ	393	5.244	35.994	61.300	1.00	36.28	AAAA
									1.00		AAAA
ATOM	3002		LEU			4.496	35.931	59.991			
ATOM	3003	CD2	LEU	Α	393	6.715	36.143	61.059	1.00	33.25	AAA
ATOM	3004	С	LEU	Α	393	4.501	38.381	64.331	1.00	39.67	AAAA
	3005	ō	LEU			3.715	39.136	63.743	1.00	4n 39	AAAA
ATOM											
ATOM	3006	N	HIS			4.813	38.507	65.619	1.00		AAAA
ATOM	3007	CA	HIS	Α	394	4.222	39.526	66.484	1.00	39.27	AAAA
ATOM	3008	CB	HIS	Α	394	4.910	39.532	67.857	1.00	40.55	AAAA
	3009	CG	HIS			4.159	40.305	68.898	1.00		AAAA
ATOM											
ATOM	3010	CD2	HIS	Ą	394	4.301	41.577	69.342	1.00		AAAA
ATOM	3011	ND1	HIS	Α	394	3.060	39.795	69.554	1.00	42.77	AAAA
ATOM	3012	CE1	HIS	Δ	394	2.556	40.719	70.353	1.00	41.69	AAAA
								70.242		41.97	AAAA
MOTA	3013		HIS			3.289	41.811				
ATOM	3014	С	HIS	А	394	4.292	40.926	65.893	1.00	38.79	AAAA
ATOM	3015	0	HIS	Α	394	3.351	41.709	66.013	1.00	38.38	AAAA
ATOM	3016	N			395	5.410	41.249	65.257	1.00	37.20	AAAA
					395		42.571	64.674		35.92	AAAA
MOTA	3017	CA				5.554					
MOTA	3018	CB	ALA	Α	395	6.925	42.701	64.028	1.00	34.88	AAAA
ATOM	3019	С	ALA	Α	395	4.462	42.932	63.662	1.00	36.31	AAAA
ATOM	3020	0			395	4.301	44.104	63.343	1 00	37.51	AAAA
											AAAA
MOTA	3021	N			396	3.728	41.937	63.147		34.95	
ATOM	3022	CA	PHE	Α	396	2.667	42.190	62.163	1.00	32.11	AAAA
ATOM	3023	CB	PHE	А	396	2.853	41.330	60.905	1.00	28.04	AAAA
					396	3.968	41.767	60.007	1 00	24.47	AAAA
ATOM	3024	CG									
MOTA	3025	CD1	PHE	Α	396	3.909	42.970	59.329		25.86	AAAA
ATOM	3026	CD2	PHE	Α	396	5.075	40.970	59.827	1.00	22.38	AAAA
ATOM	3027	CE1	PHE	Δ	396	4.944	43.370	58.487	1.00	22.17	AAAA
							41.365	58.990		22.12	AAAA
ATOM	3028		PHE			6.108					
MOTA	3029	CZ	PHE	Α	396	6.039	42.565	58.324	1.00	21.32	AAAA
ATOM	3030	С	PHE	Α	396	1.289	41.873	62.737	1.00	33.87	AAAA
ATOM	3031	0			396	0.309	41.796	61.995	1.00	33.82	AAAA
										35.27	AAAA
ATOM	3032	И			397	1.191	41.690	64.048			
ATOM	3033	CA	GLU	Α	397	-0.106	41.356	64.606	1.00	37.65	AAAA
MOTA	3034	CB	GLU	Α	397	0.016	40.929	66.058	1.00	39.15	AAAA
ATOM	3035	CG			397	0.339	42.015	67.046	1 00	40.94	AAAA
											AAAA
ATOM	3036	CD			397	0.031	41.548	68.458		42.45	
ATOM	3037	OE1	GLU	Α	397	0.258	40.348	68.735	1.00	41.69	AAAA
ATOM	3038	OE2	GLU	Α	397	-0.434	42.364	69.280	1.00	43.60	AAAA
ATOM	3039	C			397	-1.191	42.419	64.477	1 00	39.31	AAAA
										37.98	AAAA
MOTA	3040	0			397	-2.299	42.216	64.956			
ATOM	3041	N	ASN	Α	398	-0.880	43.541	63.833		40.58	AAAA
ATOM	3042	CA	ASN	Α	398	-1.870	44.592	63.630	1.00	41.85	AAAA
ATOM	3043	CB	ASM	Δ	398	-1.397	45.923	64.212	1.00	42.79	AAAA
										42.51	AAAA
ATOM	3044	CG			398	-1.321	45.905	65.718			
ATOM	3045	OD1	ASN	Α	398	-2.222	45.395	66.395		42.06	AAAA
ATOM	3046	ND2	ASN	Α	398	-0.252	46.476	66.258	1.00	41.25	AAAA
MOTA	3047	C	ASN	А	398	-2.158	44.777	62.146	1.00	43.00	AAAA
		ō				-3.050	45.537	61.775		44.33	AAAA
ATOM	3048				398						AAAA
ATOM	3049	N			399	-1.383	44.100	61.303		42.42	
MOTA	3050	CA	LEU	Α	399	-1.580	44.164	59.865	1.00	42.43	AAAA
MOTA	3051	CB	LEU	Α	399	-0.602	43.232	59.156	1.00	40.93	AAAA.
ATOM	3052	CG			399	-0.826	43.085	57.650	1.00	39.84	AAAA
											AAAA
ATOM	3053				399	-0.655	44.452	56.990		40.60	
ATOM	3054	CD2	LEU	Α	399	0.141	42.067	57.070	1.00	35.40	AAAA
MOTA	3055	С	LEU	Α	399	-3.011	43.714	59.579	1.00	44.64	AAAA
ATOM	3056	0			399	-3.375	42.573	59.867	1.00	46.72	AAAA
								59.016		44.78	AAAA
ATOM	3057	N			400	-3.821	44.607				
ATOM	3058	CA	GLU	A	400	-5.214	44.287	58.730		44.74	AAAA
ATOM	3059	CB	GLU	A	400	-6.113	45.482	59.080	1.00	47.98	AAAA
ATOM	3060	CG			400	-6.194	45.862	60.557	1.00	53.25	AAAA
								60.792		57.33	AAAA
ATOM	3061	CD			400	-7.079					
ATOM	3062	OE1	GLU	Α	400	-6.744	48.177	60.275		59.63	AAAA
MOTA	3063	OE 2	GLU	A	400	-8.114	46.960	61.487	1.00	61.16	AAAA
ATOM	3064	C			400	-5.516		57.292		42.82	AAAA
											AAAA
MOTA	3065	0			400	-6.299		57.069		41.36	
MOTA	3066	N	ILE	Α	401	-4.904	44.552	56.323	1.00	40.71	AAAA
ATOM	3067	CA			401	-5.170	_	54.911	1.00	38.68	AAAA
	3068	CB			401	-6.059		54.279		41.72	AAAA
MOTA											AAAA
MOTA	3069				401	-6.282		52.779		42.03	
MOTA	3070	CG1	ILE	A	401	-7.437	45.511	54.952	1.00	43.20	AAAA

ATOM	3071	CD1	ILE A	401	-7.450	46.189	56.318	1.00 43.84	AAAA
ATOM	3072	С	ILE A		-3.913	44.171	54.065	1.00 36.42	AAAA
ATOM	3072	0	ILE A						
					-2.980	44.951	54.231	1.00 37.28	AAAA
ATOM	3074	N	ILE A		-3.893	43.184	53.173	1.00 32.73	AAAA
ATOM	3075	CA	ILE A	402	-2.797	42.992	52.223	1.00 32.20	AAAA
MOTA	3076	CB	ILE A	402	-2.084	41.625	52.378	1.00 31.77	AAAA
ATOM	3077	CG2	ILE A	402	-1.119	41.403	51.205	1.00 27.65	AAAA
ATOM	3078		ILE A		-1.352				
						41.548	53.713	1.00 30.61	AAAA
MOTA	3079		ILE A		-0.577	40.247	53.899	1.00 30.46	AAAA
ATOM	3080	С	ILE A	402	-3.563	42.982	50.896	1.00 33.42	AAAA
ATOM	3081	0	ILE A	402	-4.300	42.035	50.615	1.00 32.63	AAAA
ATOM	3082	N	ARG A		-3.387	44.024	50.087	1.00 33.10	AAAA
ATOM	3083								
		CA	ARG A		-4.119	44.149	48.830	1.00 33.91	AAAA
MOTA	3084	СВ	ARG A		-4.269	45.631	48.473	1.00 34.86	AAAA
ATOM	3085	CG	ARG A	403	-5.147	46.404	49.452	1.00 34.32	AAAA
ATOM	3086	CD	ARG A	403	-5.340	47.836	48.989	1.00 35.94	AAAA
ATOM	3087	NE	ARG A		-5.860	48.690	50.056	1.00 35.87	AAAA
ATOM	3088	CZ							
			ARG A		-7.068	48.571	50.591	1.00 34.55	AAAA
ATOM	3089		ARG A		-7.908	47.638	50.155	1.00 35.36	AAAA
ATOM	3090	NH2	ARG A	403	-7.418	49.359	51.591	1.00 32.60	AAAA
ATOM	3091	С	ARG A	403	-3.646	43.382	47.598	1.00 34.25	AAAA
ATOM	3092	0	ARG A		-4.441	43.116	46.701	1.00 34.66	AAAA
ATOM	3093	N	GLY A		-2.367		47.544		
						43.038		1.00 33.18	AAAA
ATOM	3094	CA	GLY A		-1.860	42.301	46.403	1.00 30.77	AAAA
ATOM	3095	С	GLY A	404	-1.787	43.047	45.078	1.00 30.29	AAAA
ATOM	3096	0	GLY A	404	-1.700	42.411	44.034	1.00 27.77	AAAA
ATOM	3097	N	ARG A	405	-1.816	44.379	45.103	1.00 31.88	AAAA
ATOM	3098	CA	ARG A		-1.734	45.159			
							43.867	1.00 31.46	AAAA
ATOM	3099	CB	ARG A		-1.681	46.655	44.163	1.00 32.21	AAAA
MOTA	3100	CG	ARG A		-2.902	47.177	44.901	1.00 35.85	AAAA
ATOM	3101	CD	ARG A	405	-3.544	48.375	44.215	1.00 38.24	AAAA
ATOM	3102	NE	ARG A	405	-4.866	48.637	44.771	1.00 40.90	AAAA
MOTA	3103	CZ	ARG A		-5.111	49.430	45.809	1.00 41.47	AAAA
ATOM	3104		ARG A		-4.122	50.065	46.415	1.00 43.47	AAAA
ATOM	3105		ARG A	405	-6.350	49.565	46.259	1.00 42.42	AAAA
MOTA	3106	C	ARG A	405	-0.491	44.735	43.110	1.00 33.27	AAAA
ATOM	3107	0	ARG A	405	-0.441	44.833	41.889	1.00 35.95	AAAA
ATOM	3108	N	THR A	406	0.524	44.290	43.845	1.00 32.60	AAAA
ATOM	3109	CA	THR A		1.753	43.788	43.242	1.00 30.80	AAAA
ATOM	3110	CB	THR A		2.967	44.728	43.476	1.00 29.99	AAAA
ATOM	3111		THR A		2.854	45.358	44.749	1.00 31.07	AAAA
MOTA	3112	CG2	THR A	406	3.034	45.806	42.404	1.00 27.41	AAAA
ATOM	3113	С	THR A	406	1.960	42.442	43.923	1.00 33.33	AAAA
ATOM	3114	0	THR A	406	1.582	42.277	45.093	1.00 33.06	AAAA
ATOM	3115	N	LYS A			41.468			
					2.512		43.194	1.00 32.61	
ATOM	3116	CA	LYS A		2.714	40.135	43.751	1.00 32.20	AAAA
ATOM	3117	CB	LYS A		1.629	39.207	43.225	1.00 35.33	AAAA
ATOM	3118	CG	LYS A	407	0.219	39.711	43.485	1.00 37.79	AAAA
ATOM	3119	CD	LYS A	407	-0.819	38.665	43.069	1.00 43.28	AAAA
ATOM	3120	CE	LYS A		-1.413	38.923	41.687	1.00 42.13	AAAA
ATOM	3121								
		NZ	LYS A		-2.341	40.087		1.00 42.06	AAAA
MOTA	3122	С	LYS A		4.085	39.520	43.476	1.00 31.39	AAAA
MOTA	3123	0	LYS A	407	4.719	39.829	42.473	1.00 30.69	AAAA
MOTA	3124	N	GLN A	408	4.545	38.660	44.383	1.00 28.08	AAAA
ATOM	3125	CA	GLN A	408	5.824	38.009		1.00 26.83	AAAA
ATOM	3126	CB	GLN A		6.207	37.259	45.485	1.00 29.35	AAAA
ATOM	3127	CG	GLN A						
					7.498	36.460	45.371	1.00 29.16	AAAA
ATOM	3128	CD	GLN A		8.694	37.328	45.068	1.00 32.86	AAAA
MOTA	3129	OE1	GLN A	408	8.565	38.379	44.434	1.00 33.61	AAAA
ATOM	3130	NE2	GLN A	408	9.876	36.891	45.504	1.00 32.46	AAAA
ATOM	3131	С	GLN A	408	5.714	37.038	43.041	1.00 29.12	AAAA
ATOM	3132	0	GLN A		4.789	36.233	42.980	1.00 29.53	AAAA
ATOM	3133	N	HIS A		6.661			1.00 29.33	
						37.110			AAAA
MOTA	3134	CA	HIS A		6.649	36.251	40.933	1.00 32.56	AAAA
MOTA	3135	CB	HIS A		6.859	34.782	41.320	1.00 36.90	AAAA
ATOM	3136	CG	HIS A	409	8.107	34.517	42.106	1.00 40.38	AAAA
ATOM	3137	CD2	HIS A	409	8.396	33.550	43.011	1.00 40.38	AAAA
ATOM	3138		HIS A		9.268	35.244	41.939	1.00 42.93	AAAA
ATOM	3139								
			HIS A		10.218	34.734	42.703	1.00 42.58	AAAA
ATOM	3140		HIS A		9.716	33.704	43.364	1.00 41.57	AAAA
MOTA	3141	С	HIS A	409	5.321	36.385	40.169	1.00 32.06	<b>AAA</b> A
MOTA	3142	0	HIS A	409	4.923	35.489	39.436	1.00 34.04	AAAA
ATOM	3143	N	GLY A		4.633	37.500	40.360	1.00 31.46	AAAA
ATOM	3144	CA	GLY A		3.376	37.730			
							39.679	1.00 31.99	AAAA
ATOM	3145	С	GLY A	410	2.202	36.971	40.264	1.00 34.58	AAAA

ATOM 3146 0 GIY A 410 1.047 37.205 39.899 1.00 35.65 AAAA AROM 3147 N GIA 411 1.436 35.261 41.785 1.00 34.61 AAAA AROM 3148 CA GIN A 411 1.436 35.261 41.785 1.00 34.65 AAAA AROM 3150 CG GIN A 411 1.436 35.261 41.785 1.00 30.65 AAAA AROM 3150 CG GIN A 411 1.92 33.731 41.528 1.00 30.65 AAAA AROM 3150 CG GIN A 411 1.92 33.731 41.528 1.00 30.65 AAAA AROM 3150 CG GIN A 411 1.936 31.407 41.795 1.00 32.13 AAAA AROM 3150 NEZ GIN A 411 1.931 31.055 41.795 1.00 32.13 AAAA AROM 3150 NEZ GIN A 411 1.931 31.055 41.795 1.00 32.13 AAAA AROM 3155 CG GIN A 411 1.931 31.055 41.00 32.13 AAAA AROM 3155 CG GIN A 411 1.031 35.408 41.00 32.13 AAAA AROM 3155 CG GIN A 411 1.031 35.408 41.00 32.51 AAAA AROM 3155 CG PHE A 412 1.845 35.618 41.112 1.00 32.99 AAAA AROM 3155 CG PHE A 412 1.845 35.618 41.112 1.00 31.05 AAAA AROM 3155 CG PHE A 412 2.268 31.337 45.678 1.00 29.50 AAAA AROM 3156 CG PHE A 412 2.288 31.337 45.678 1.00 29.50 AAAA AROM 3156 CG PHE A 412 2.288 31.337 45.678 1.00 27.26 AAAA AROM 3156 CG PHE A 412 3.288 34.334 40.05 1.00 27.26 AAAA AROM 3156 CF PHE A 412 3.433 31.034 40.05 1.00 27.26 AAAA AROM 3166 CD PHE A 412 3.433 31.034 40.05 1.00 27.26 AAAA AROM 3166 CD PHE A 412 3.433 31.034 40.05 1.00 27.26 AAAA AROM 3166 CF PHE A 412 3.433 31.034 40.05 1.00 27.26 AAAA AROM 3166 CF PHE A 412 3.434 31.034 40.05 1.00 27.26 AAAA AROM 3166 CF PHE A 412 3.434 31.034 40.05 1.00 27.36 AAAA AROM 3166 CF PHE A 412 3.434 31.034 40.05 1.00 27.36 AAAA AROM 3167 CF PHE A 412 3.434 31.034 40.05 1.00 27.36 AAAA AROM 3168 CF PHE A 412 3.434 31.034 45.55 1.00 27.36 AAAA AROM 3167 CF PHE A 412 3.434 31.034 45.55 1.00 27.36 AAAA AROM 3167 CF PHE A 412 3.434 31.034 40.05 1.00 27.36 AAAA AROM 3167 CF PHE A 412 3.434 31.034 40.05 1.00 27.36 AAAA AROM 3168 CF PHE A 412 3.434 31.034 40.05 1.00 27.36 AAAA AROM 3167 CF PHE A 412 3.434 31.034 40.05 1.00 27.36 AAAA AROM 3167 CF PHE A 412 3.434 31.034 40.05 1.00 27.36 AAAA AROM 3168 CF PHE A 412 3.434 31.034 40.05 1.00 27.36 AAAA AROM 3168 CF PHE A 412 3.434 31.034 40.05 1.00 27.36 AAAA AROM 3168 CF PHE A 41														
ACCM    3147   N   GEN A 411	АТОМ	3146	0	GLY	Α	410	1.04	7	37.205	39.899	1.00	35.65	AAAA	
ARTOM 3149 CB GLN A 411									36.079	41.205	1.00	34.61	AAAA	
ATOM 3150 CB GLN R 4111											1.00	30.65	AAAA	
ATOM   31.50   CG   GLN R 4 11														
APPEN								_						
ADD														
APPEN   3153   MEZ   GIAN R 411	ATOM	3151												
ATOM   3155   N   GIAN   A11	ATOM	3152	OE1	GLN	Α	411	1.93							
ATOM 3156 C GIN A 411	ATOM	3153	NE2	GLN	Α	411	0.03	7	30.576	42.187	1.00	29.77		
ATOM 3155 O GIN A 411 -0.082 35.505 43.610 1.00 32.89 AAAA ATOM 3157 CA PHE R 412 1.845 35.618 41.12 1.00 31.05 AAAA ATOM 3158 CB PHE R 412 2.868 31.373 4 46.272 1.00 29.50 AAAA ATOM 3159 CG PHE R 412 2.868 31.373 4 46.272 1.00 29.50 AAAA ATOM 3159 CG PHE R 412 2.868 31.373 4 46.272 1.00 29.50 AAAA ATOM 3160 CDL PHE R 412 2.868 31.373 4 46.672 1.00 29.50 AAAA ATOM 3161 CD2 PHE R 412 2.024 32.355 46.129 1.00 30.14 AAAA ATOM 3162 CPL PHE R 412 2.024 32.355 46.129 1.00 30.75 AAAA ATOM 3163 CP2 PHE R 412 2.041 31.084 4.455 1.00 27.26 AAAA ATOM 3165 CP PHE R 412 2.041 31.084 4.455 1.00 27.28 AAAA ATOM 3165 CP PHE R 412 2.041 31.084 4.5544 1.00 27.81 AAAA ATOM 3165 CP PHE R 412 1.770 36.955 46.239 1.00 29.38 AAAA ATOM 3165 CP PHE R 412 1.770 36.955 46.239 1.00 22.33 AAAA ATOM 3167 N SER R 413 0.775 37.028 47.103 1.00 27.36 AAAA ATOM 3167 N SER R 413 0.775 37.028 47.103 1.00 27.36 AAAA ATOM 3167 N SER R 413 0.775 37.028 47.103 1.00 27.36 AAAA ATOM 3167 N SER R 413 0.775 37.028 47.103 1.00 27.36 AAAA ATOM 3167 N SER R 413 1.017 38.145 49.289 1.00 26.59 AAAA ATOM 3170 CG SER R 413 1.017 38.145 49.289 1.00 26.59 AAAA ATOM 3171 C SER R 413 1.017 38.145 49.289 1.00 26.59 AAAA ATOM 3171 C SER R 413 1.017 38.145 49.289 1.00 26.59 AAAA ATOM 3171 C SER R 413 1.017 38.145 49.289 1.00 26.59 AAAA ATOM 3173 N LEU R 414 1.022 36.990 49.877 1.00 24.95 AAAA ATOM 3173 C SER R 413 1.017 38.145 49.289 1.00 26.59 AAAA ATOM 3178 C SER R 413 1.017 38.145 49.289 1.00 26.59 AAAA ATOM 3178 C SER R 413 1.017 38.145 49.289 1.00 26.59 AAAA ATOM 3178 C SER R 413 1.017 38.145 49.289 1.00 26.59 AAAA ATOM 3179 C LEU R 414 0.466 36.382 52.146 1.00 27.59 AAAA ATOM 3178 C SER R 413 1.017 38.145 49.289 1.00 26.59 AAAA ATOM 3179 C LEU R 414 0.466 36.382 52.146 1.00 27.59 AAAA ATOM 3179 C SER R 413 1.017 38.145 49.289 1.00 27.59 AAAA ATOM 3179 C SER R 413 1.017 38.35 39.15 1.00 29.29 AAAA ATOM 3179 C SER R 418 1.02 AAAA ATOM 3179		3154	С	GLN	Α	411	1.09	4	35.440	43.254	1.00	30.98	AAAA	
APACH   APAC							-0.08	2	35.505	43.610	1.00	32.89	AAAA	
APPEN   3157   PHE R   412													AAAA	
ATOM 3159 CB PHE A 412														
ATOM 3159 CG PHE A 412														
ATOM 3160 CD1 PHE A 412	ATOM	3158	CB											
ATOM 3161 CD2 PHE A 412	ATOM	3159	CG	PHE	A	412								
ATOM 3162 CEI HIE A 412	ATOM	3160	CD1	PHE	Α	412	3.72	8	33.062	44.628				
ATOM 3162 CEI PHE A 412	ATOM	3161	CD2	PHE	Α	412	2.02	4	32.335	46.129	1.00	30.75	AAAA	
ATOM   3163   CE2   PHE   A 412   2.041   31.084   45.544   1.00   27.81   AAAA   ATOM   3164   C2   PHE   A 412   1.770   36.955   46.239   1.00   28.31   AAAA   ATOM   3165   C   PHE   A 412   1.770   36.955   46.239   1.00   29.38   AAAA   ATOM   3167   N   SER   A 413   0.775   37.028   47.103   1.00   27.36   AAAA   ATOM   3167   N   SER   A 413   0.457   38.207   47.859   1.00   27.36   AAAA   ATOM   3169   CA   SER   A 413   0.457   38.207   47.859   1.00   27.36   AAAA   ATOM   3170   CG   SER   A 413   -1.410   39.398   48.714   1.00   34.64   AAAA   ATOM   3171   C   SER   A 413   -1.410   39.398   48.714   1.00   34.64   AAAA   ATOM   3172   O   SER   A 413   1.388   39.169   49.877   1.00   24.96   AAAA   ATOM   3173   N   EU   A 414   1.062   36.930   49.872   1.00   25.83   AAAA   ATOM   3174   CA   EU   A 414   1.052   36.650   51.159   1.00   26.28   AAAA   ATOM   3175   CB   EU   A 414   0.466   36.382   52.146   1.00   26.28   AAAA   ATOM   3175   CB   EU   A 414   0.466   36.382   52.146   1.00   27.88   AAAA   ATOM   3176   CG   EU   A 414   0.466   36.382   52.146   1.00   27.88   AAAA   ATOM   3176   CG   EU   A 414   0.466   36.382   52.146   1.00   27.88   AAAA   ATOM   3178   CD   EU   A 414   0.466   36.382   52.146   1.00   27.88   AAAA   ATOM   3178   CD   EU   A 414   0.466   36.382   52.146   1.00   27.89   AAAA   ATOM   3178   CD   EU   A 414   0.466   36.382   52.146   1.00   27.89   AAAA   ATOM   3178   CD   EU   A 414   0.466   36.382   52.146   1.00   27.89   AAAA   ATOM   3180   O EU   A 414   0.466   36.382   52.146   1.00   27.59   AAAA   ATOM   3180   O EU   A 414   0.466   36.382   52.146   1.00   27.59   AAAA   ATOM   3181   N   ALA   A 415   3.697   35.478   51.092   1.00   27.59   AAAA   ATOM   3181   N   ALA   A 415   3.697   35.478   51.092   1.00   27.59   AAAA   ATOM   3183   CB   ALA   A 415   5.395   34.341   51.092   1.00   27.59   AAAA   ATOM   3180   CD   LU   A 414   5.502   34.934   51.092   1.00   27.59   AAAA   ATOM   3180   CD   LU   A 414   5.502   34.			CE1	PHE	Α	412	3.74	3	31.813	44.045	1.00	29.95	AAAA	
ATOM 3164 CZ PHE A 412									31.084	45.544	1.00	27.81	AAAA	
ATOM 3165 C PHE A 112 1.770 36.955 46.239 1.00 29.38 AAAA ATOM 3167 N SER A 413 0.775 37.028 47.103 1.00 27.36 AAAA ATOM 3167 N SER A 413 0.775 37.028 47.103 1.00 27.36 AAAA ATOM 3169 CB SER A 413 -1.051 38.339 47.877 1.00 22.05 AAAA ATOM 3170 CG SER A 413 -1.051 38.339 47.877 1.00 22.05 AAAA ATOM 3171 C SER A 413 1.017 38.145 49.289 1.00 26.59 AAAA ATOM 3171 C SER A 413 1.017 38.145 49.289 1.00 26.59 AAAA ATOM 3173 N LEU A 414 1.052 36.930 49.877 1.00 22.05 AAAA ATOM 3173 N LEU A 414 1.052 36.930 49.872 1.00 22.05 AAAA ATOM 3173 N LEU A 414 1.052 36.930 49.872 1.00 22.83 AAAA ATOM 3173 N LEU A 414 1.052 36.930 49.872 1.00 26.28 AAAAA ATOM 3175 CB LEU A 414 0.466 36.382 52.146 1.00 26.28 AAAAA ATOM 3175 CB LEU A 414 0.466 36.382 52.146 1.00 26.28 AAAAA ATOM 3176 CG LEU A 414 0.466 36.382 52.146 1.00 27.88 AAAA ATOM 3176 CG LEU A 414 0.909 36.044 53.580 1.00 27.88 AAAA ATOM 3178 CD LEU A 414 0.909 36.044 53.580 1.00 27.88 AAAA ATOM 3178 CD LEU A 414 0.346 35.339 16.00 27.88 AAAA ATOM 3178 CD LEU A 414 0.346 35.339 15.00 27.59 AAAA ATOM 3180 CD LEU A 414 1.591 35.339 51.002 1.00 27.59 AAAA ATOM 3181 N ALA A 415 3.697 35.478 51.291 1.00 27.59 AAAA ATOM 3181 N ALA A 415 3.697 35.478 51.294 1.00 27.59 AAAA ATOM 3181 N ALA A 415 3.697 35.478 51.294 1.00 27.17 AAAA ATOM 3183 CB ALA A 415 5.355 34.343 15.1294 1.00 27.39 AAAA ATOM 3183 CB ALA A 415 5.355 34.378 50.613 1.00 28.43 AAAA ATOM 3185 C ALA A 415 5.355 34.378 50.613 1.00 28.43 AAAA ATOM 3183 CB ALA A 415 5.355 34.170 52.586 1.00 27.64 AAAA ATOM 3183 CB ALA A 415 5.355 34.378 50.613 1.00 28.43 AAAA ATOM 3185 C ALA A 415 5.355 34.355 50.613 1.00 28.43 AAAA ATOM 3185 C ALA A 415 5.355 34.530 50.115 1.00 23.83 AAAA ATOM 3189 CG VAL A 416 5.062 31.956 53.774 1.00 32.17 AAAA ATOM 3189 CG VAL A 416 5.062 31.956 51.00 32.374 AAAA ATOM 3190 CG VAL A 416 5.062 31.956 51.00 32.374 AAAA ATOM 3191 C VAL A 416 5.062 31.956 51.00 32.374 AAAA ATOM 3191 C VAL A 416 5.062 31.956 51.00 32.374 AAAAA ATOM 3191 C VAL A 416 5.062 31.957 50.958 31.00 32.56 AAAAA ATOM 3190 CG VAL A 416											1.00	26.31	AAAA	
ATOM 3166 O PHE A 412														
ATOM 3167 N SER A 413 0.775 37.028 47.103 1.00 27.36 AAAA ATOM 3169 CA SER A 413 -1.051 38.393 47.877 1.00 22.05 AAAA ATOM 3170 CO SER A 413 -1.061 38.393 47.877 1.00 22.05 AAAA ATOM 3171 C SER A 413 1.017 38.145 49.289 1.00 22.05 AAAA ATOM 3171 C SER A 413 1.017 38.145 49.289 1.00 22.05 AAAA ATOM 3171 C SER A 413 1.017 38.145 49.289 1.00 22.05 AAAA ATOM 3173 N LEU A 414 1.082 36.930 49.877 1.00 22.05 AAAA ATOM 3173 N LEU A 414 1.082 36.930 49.877 1.00 22.96 AAAA ATOM 3173 N LEU A 414 1.082 36.930 49.828 1.00 22.83 AAAA ATOM 3176 CB LEU A 414 0.969 36.044 53.580 1.00 27.88 AAAA ATOM 3176 CG LEU A 414 0.969 36.044 53.580 1.00 27.88 AAAA ATOM 3176 CD LEU A 414 0.969 36.044 53.580 1.00 27.89 AAAA ATOM 3176 CD LEU A 414 0.993 38.044 45.450 1.00 27.07 AAAA ATOM 3178 CD LEU A 414 2.043 35.391 51.029 1.00 27.59 AAAA ATOM 3180 CD LEU A 414 2.043 35.391 51.029 1.00 27.59 AAAA ATOM 3180 CD LEU A 414 2.043 35.391 51.029 1.00 27.59 AAAA ATOM 3181 N ALA A 415 3.697 35.478 51.09 1.00 27.59 AAAA ATOM 3183 CB ALA A 415 3.697 35.478 51.09 1.00 27.59 AAAA ATOM 3183 CB ALA A 415 5.527 34.550 50.115 1.00 23.83 AAAA ATOM 3183 CB ALA A 415 5.527 34.550 50.115 1.00 23.83 AAAA ATOM 3186 C ALA A 415 5.527 34.550 50.115 1.00 23.83 AAAA ATOM 3186 C ALA A 415 5.5395 34.170 52.586 1.00 27.39 AAAA ATOM 3187 CA VAL A 416 5.786 34.954 52.874 1.00 32.17 AAAA ATOM 3186 C ALA A 415 5.366 34.954 52.874 1.00 32.17 AAAA ATOM 3187 CA VAL A 416 5.786 34.954 52.874 1.00 32.17 AAAA ATOM 3189 CO VAL A 416 5.786 34.954 52.874 1.00 32.17 AAAA ATOM 3189 CO VAL A 416 5.786 34.955 50.01 15 1.00 29.48 AAAA ATOM 3190 CG2 VAL A 416 5.666 34.955 50.01 15 1.00 29.48 AAAA ATOM 3190 CG2 VAL A 416 5.666 34.955 50.00 1.00 31.37 AAAA ATOM 3190 CG2 VAL A 416 5.666 34.955 50.00 31.37 AAAA ATOM 3190 CG2 VAL A 416 5.666 34.955 50.00 31.37 AAAA ATOM 3190 CG2 VAL A 416 5.666 34.955 50.00 31.37 AAAA ATOM 3190 CG2 VAL A 416 5.666 34.955 50.00 31.37 AAAA ATOM 3190 CG2 VAL A 417 8.780 29.900 52.498 1.00 33.75 AAAA ATOM 3190 CG2 VAL A 417 8.780 29.900 52.498 1.00 33.75 AAAA ATOM														
ATOM 3166 CA SER A 413														
ATOM 3169 CB SER A 413	MOTA	3167	N											
ATOM 3170 OG SER A 413	MOTA	3168	CA	SER	A	413	0.45	57						
ATOM 3171 C SER A 413 1.017 38.145 49.289 1.00 26.59 AAAA ATOM 3172 O SER A 413 1.358 39.169 49.877 1.00 24.96 AAAA ATOM 3173 N LEU A 414 1.082 36.930 49.828 1.00 25.83 AAAA ATOM 3175 CB LEU A 414 1.092 36.930 19.828 1.00 26.28 AAAA ATOM 3175 CB LEU A 414 1.092 36.930 51.159 1.00 26.28 AAAA ATOM 3176 CG LEU A 414 0.969 36.044 53.580 1.00 27.88 AAAA ATOM 3176 CD LEU A 414 1.694 37.203 54.165 1.00 23.02 AAAA ATOM 3178 CD2 LEU A 414 1.093 37.203 54.165 1.00 27.17 AAAA ATOM 3178 CD2 LEU A 414 1.943 37.55 50.613 1.00 27.17 AAAA ATOM 3179 C LEU A 414 1.914 34.355 50.613 1.00 27.17 AAAA ATOM 3180 O LEU A 414 1.914 34.355 50.613 1.00 27.59 AAAA ATOM 3180 C LEU A 414 1.914 34.355 50.613 1.00 27.59 AAAA ATOM 3181 N ALA A 415 3.697 38.478 51.385 1.00 27.64 AAAA ATOM 3183 CB ALA A 415 5.527 34.530 50.115 1.00 23.83 AAAA ATOM 3183 CB ALA A 415 5.527 34.530 50.115 1.00 23.83 AAAA ATOM 3183 CB ALA A 415 5.527 34.530 50.115 1.00 23.83 AAAA ATOM 3183 CB ALA A 415 5.355 34.705 52.666 1.00 27.99 48 AAAA ATOM 3186 C ALA A 415 5.256 34.954 52.874 1.00 23.17 AAAA ATOM 3186 C ALA A 415 5.262 31.565 53.374 1.00 29.48 AAAA ATOM 3187 C AVAL A 416 5.062 33.156 53.374 1.00 29.48 AAAA ATOM 3188 C B VAL A 416 5.062 33.156 53.374 1.00 28.69 AAAA ATOM 3190 C G2 VAL A 416 5.663 32.991 54.612 1.00 28.69 AAAA ATOM 3190 C G2 VAL A 416 5.663 32.991 55.813 1.00 28.69 AAAA ATOM 3190 C G2 VAL A 416 5.663 32.991 55.813 1.00 28.69 AAAA ATOM 3190 C G2 VAL A 416 5.663 32.991 55.813 1.00 28.69 AAAA ATOM 3193 C G2 VAL A 416 5.663 32.517 57.077 1.00 31.26 AAAA ATOM 3193 C G2 VAL A 416 5.821 30.526 54.626 1.00 30.55 AAAA ATOM 3193 C G2 VAL A 416 5.821 30.526 54.626 1.00 30.55 AAAAA ATOM 3193 C G2 VAL A 416 5.821 30.526 55.052 1.00 31.37 AAAA ATOM 3193 C G2 VAL A 417 7.70 31.544 54.181 1.00 30.25 AAAA ATOM 3193 C G2 VAL A 417 7.70 31.544 54.181 1.00 30.25 AAAA ATOM 3193 C G2 VAL A 417 7.70 31.544 54.181 1.00 31.25 AAAA ATOM 3193 C G2 VAL A 417 7.70 31.544 54.181 1.00 31.57 AAAA ATOM 3193 C C VAL A 417 7.70 31.544 54.181 1.00 31.43 AAAA ATOM 3195 C C C C C C C	ATOM	3169	CB	SER	Α	413	-1.05	51	38.339	47.877				
ATOM 3171 C SER A 413	ATOM	3170	OG	SER	Α	413	-1.41	.0	39.398	48.714	1.00	34.64	AAAA	
ATOM 3172 O SER A 413							1.01	.7	38.145	49.289	1.00	26.59	AAAA	
ATOM 3173 N LEU A 414 1.597 36.590 49.828 1.00 25.83 AAAA ATOM 3175 CB LEU A 414 1.597 36.550 51.159 1.00 26.28 AAAA ATOM 3175 CB LEU A 414 0.969 36.044 53.580 1.00 27.86 AAAA ATOM 3177 CDI LEU A 414 0.969 36.044 53.580 1.00 27.86 AAAA ATOM 3177 CDI LEU A 414 0.969 36.044 53.580 1.00 27.86 AAAA ATOM 3178 CD2 LEU A 414 0.969 37.203 54.165 1.00 23.02 AAAA ATOM 3178 CD2 LEU A 414 0.969 37.203 54.165 1.00 23.02 AAAA ATOM 3178 CD2 LEU A 414 0.969 37.203 54.165 1.00 27.17 AAAA ATOM 3180 O LEU A 414 1.914 34.555 50.613 1.00 27.17 AAAA ATOM 3180 O LEU A 414 1.914 34.555 50.613 1.00 27.64 AAAA ATOM 3181 N ALA A 415 3.697 35.478 51.395 1.002 7.64 AAAA ATOM 3182 CA ALA A 415 4.593 34.341 51.294 1.00 27.39 AAAA ATOM 3183 CB ALA A 415 5.527 34.530 50.115 1.00 23.83 AAAA ATOM 3183 CB ALA A 415 5.355 34.780 51.05 21.00 22.39 AAAA ATOM 3185 O ALA A 415 5.355 34.780 1.00 27.64 AAAA ATOM 3185 O ALA A 415 5.355 34.780 1.00 27.64 AAAA ATOM 3185 O ALA A 415 5.355 34.170 52.586 1.00 29.02 AAAAA ATOM 3185 CD ALA A 415 5.355 34.170 52.586 1.00 29.02 AAAAA ATOM 3185 CD ALA A 416 5.062 33.156 53.374 1.00 22.17 AAAA ATOM 3186 CD VAL A 416 5.062 33.156 53.374 1.00 22.17 AAAA ATOM 3188 CB VAL A 416 5.062 33.156 53.374 1.00 29.48 AAAA ATOM 3189 CG1 VAL A 416 6.649 37.203 55.801 1.00 29.48 AAAA ATOM 3190 CG2 VAL A 416 4.837 32.839 55.813 1.00 28.71 AAAA ATOM 3190 CG2 VAL A 416 6.469 31.550 54.626 1.00 30.28.71 AAAA ATOM 3191 C VAL A 416 6.469 31.550 54.626 1.00 30.375 AAAA ATOM 3193 N VAL A 417 7.770 31.544 54.181 1.00 30.25 AAAA ATOM 3193 C VAL A 416 5.821 30.526 54.626 1.00 30.375 AAAA ATOM 3193 C VAL A 416 5.821 30.526 54.626 1.00 30.375 AAAA ATOM 3193 C C VAL A 417 8.780 29.990 52.498 1.00 33.75 AAAA ATOM 3193 C C VAL A 417 8.780 29.990 52.498 1.00 33.75 AAAA ATOM 3193 C C VAL A 417 8.790 39.991 51.996 1.00 30.25 AAAA ATOM 3193 C C VAL A 417 9.817 30.072 51.698 1.00 33.75 AAAA ATOM 3290 N SER A 418 12.903 29.990 52.498 1.00 33.75 AAAA ATOM 3290 C SER A 418 12.903 29.990 52.498 1.00 33.75 AAAA ATOM 3290 C SER A 418 12.903 29.915 51.00 30.										49.877	1.00	24.96	AAAA	
ATOM 3174 CA LEU A 414											1 00	25.83	AAAA	
ATOM 3175 CB LEU A 414														
ATOM 3176 CG LEU A 414														
ATOM 3177 CDJ LEU A 414	MOTA	3175	CB											
ATOM 3178 CD2 LEU A 414	MOTA	3176	CG	LEU	Α	414	0.90	)9						
ATOM 3179 C LEU A 414 1.914 34.355 50.613 1.00 27.59 AAAA ATOM 3180 O LEU A 414 1.914 34.355 50.613 1.00 27.64 AAAA ATOM 3181 N ALA A 415 3.697 35.478 51.385 1.00 27.64 AAAA ATOM 3183 CB ALA A 415 5.527 34.530 50.115 1.00 23.83 AAAA ATOM 3183 CB ALA A 415 5.527 34.530 50.115 1.00 23.83 AAAA ATOM 3184 C ALA A 415 5.527 34.530 50.115 1.00 23.83 AAAA ATOM 3186 N VAL A 415 5.395 34.170 52.586 1.00 29.02 AAAA ATOM 3187 CA VAL A 416 5.629 34.954 52.874 1.00 32.17 AAAA ATOM 3188 CB VAL A 416 5.786 32.891 54.612 1.00 28.69 AAAA ATOM 3187 CA VAL A 416 5.629 34.954 55.873 1.00 28.69 AAAA ATOM 3189 CG VAL A 416 5.66 32.517 57.077 1.00 31.26 AAAA ATOM 3190 CG2 VAL A 416 6.469 31.550 54.470 1.00 29.24 AAAA ATOM 3191 C VAL A 416 6.469 31.550 54.470 1.00 29.24 AAAA ATOM 3192 O VAL A 416 5.821 30.526 54.470 1.00 29.24 AAAA ATOM 3193 N VAL A 417 8.492 30.276 54.031 1.00 30.85 AAAA ATOM 3194 CA VAL A 417 8.492 30.276 54.031 1.00 30.35 AAAA ATOM 3195 CB VAL A 417 8.492 30.276 54.031 1.00 33.97 AAAA ATOM 3196 CG1 VAL A 417 8.492 30.276 54.031 1.00 33.97 AAAA ATOM 3197 CG2 VAL A 417 8.780 29.990 52.498 1.00 33.75 AAAA ATOM 3196 CG1 VAL A 417 8.780 29.990 52.498 1.00 33.75 AAAA ATOM 3196 CG1 VAL A 417 8.780 29.990 52.498 1.00 33.75 AAAA ATOM 3197 CG2 VAL A 417 9.791 30.096 51.565 1.00 32.33 AAAA ATOM 3199 C VAL A 417 9.791 30.096 51.566 1.00 32.33 AAAA ATOM 3199 C VAL A 417 9.791 30.096 51.566 1.00 32.33 AAAA ATOM 3200 N SER A 418 11.301 28.327 55.713 1.00 34.99 AAAA ATOM 3200 CB SER A 418 11.301 28.327 55.713 1.00 34.42 AAAA ATOM 3200 CB SER A 418 11.301 28.327 55.713 1.00 34.42 AAAA ATOM 3201 CA SER A 418 11.301 28.327 55.713 1.00 34.99 AAAA ATOM 3201 CA SER A 418 11.301 28.327 55.713 1.00 34.99 AAAA ATOM 3201 CA SER A 418 11.301 28.307 55.713 1.00 34.42 AAAA ATOM 3201 CA SER A 418 11.301 28.307 55.713 1.00 34.42 AAAA ATOM 3201 CA SER A 418 11.301 28.307 55.713 1.00 34.99 AAAA ATOM 3201 CA SER A 418 11.700 39.94 59.100 1.00 31.43 AAAA ATOM 3201 CA SER A 418 11.700 39.94 59.100 1.00 35.63 AAAA ATOM 3201 CA SER A 418 11.700 39.94 59	ATOM	3177	CD1	LEU	Α	414	1.69	94	37.203	54.165				
ATOM 3179 C LEU A 414	ATOM	3178	CD2	LEU	Α	414	-0.31	l 4	35.739	54.447	1.00	27.17		
ATOM 3181 N ALA A 415		3179	С	LEU	Α	414	2.42	23	35.391	51.029	1.00	27.59	AAAA	
ATOM 3181 N ALA A 415							1.91	L 4	34.355	50.613	1.00	28.43	AAAA	
ATOM 3182 CA ALA A 415										51.385	1.00	27.64	AAAA	
ATOM 3183 CB ALA A 415											1.00	27.39	AAAA	
ATOM 3184 C ALA A 415													AAAA	
ATOM 3185 C ALA A 415														
ATOM 3186 N VAL A 416 5.062 33.156 53.374 1.00 29.48 AAAA ATOM 3187 CA VAL A 416 5.786 32.891 54.612 1.00 28.69 AAAA ATOM 3188 CB VAL A 416 4.837 32.839 55.813 1.00 28.71 AAAA ATOM 3189 CG1 VAL A 416 5.616 32.517 57.077 1.00 31.26 AAAA ATOM 3190 CG2 VAL A 416 4.124 34.186 55.968 1.00 31.37 AAAA ATOM 3191 C VAL A 416 5.821 30.526 54.626 1.00 30.85 AAAA ATOM 3192 O VAL A 416 5.821 30.526 54.626 1.00 30.85 AAAA ATOM 3193 N VAL A 417 7.770 31.544 54.181 1.00 30.25 AAAA ATOM 3194 CA VAL A 417 8.492 30.276 54.003 1.00 33.97 AAAA ATOM 3195 CB VAL A 417 8.780 29.990 52.498 1.00 33.75 AAAA ATOM 3195 CG VAL A 417 7.493 30.072 51.698 1.00 36.76 AAAA ATOM 3197 CG2 VAL A 417 9.791 30.969 51.956 1.00 32.33 AAAA ATOM 3199 O VAL A 417 9.791 30.969 51.956 1.00 32.33 AAAA ATOM 3199 O VAL A 417 9.817 30.072 54.750 1.00 34.16 AAAA ATOM 3200 N SER A 418 10.096 28.802 55.032 1.00 33.48 AAAA ATOM 3201 CA SER A 418 11.301 28.327 55.713 1.00 34.99 AAAA ATOM 3202 CB SER A 418 12.491 28.335 54.737 1.00 36.95 AAAA ATOM 3203 OG SER A 418 12.760 29.638 54.276 1.00 34.42 AAAA ATOM 3205 O SER A 418 12.760 29.638 54.276 1.00 34.42 AAAA ATOM 3205 O SER A 418 12.760 29.638 54.276 1.00 34.42 AAAA ATOM 3200 C SER A 418 12.760 29.638 54.276 1.00 34.42 AAAA ATOM 3205 O SER A 418 12.903 29.226 57.221 1.00 35.63 AAAA ATOM 3205 O SER A 418 12.760 29.638 54.276 1.00 40.19 AAAA ATOM 3205 O SER A 418 12.760 29.638 54.276 1.00 40.19 AAAA ATOM 3205 C SER A 418 12.903 29.226 57.221 1.00 35.63 AAAA ATOM 3205 C SER A 418 12.903 29.226 57.221 1.00 35.63 AAAAA ATOM 3205 C SER A 418 12.903 29.226 57.221 1.00 35.63 AAAA ATOM 3205 C SER A 418 12.903 29.226 57.221 1.00 35.63 AAAA ATOM 3205 C SER A 418 10.096 28.802 59.011 1.00 27.65 AAAA ATOM 3205 C SER A 418 10.096 28.802 59.011 1.00 31.43 AAAA ATOM 3205 C SER A 418 10.907 29.311 57.873 1.00 32.61 AAAA ATOM 3207 CA LEU A 419 10.052 29.371 59.450 1.00 31.43 AAAA ATOM 3208 CB LEU A 419 10.060 27.761 60.008 1.00 33.50 AAAA ATOM 3213 O LEU A 419 10.974 32.941 58.092 1.00 36.81 AAAA ATOM 3213 O LEU A 419 10.974 32.941 5														
ATOM 3187 CA VAL A 416	MOTA	3185	0											
ATOM 3188 CB VAL A 416	MOTA	3186	N	VAL	A	416								
ATOM 3189 CG1 VAL A 416	ATOM	3187	CA	VAI	, A	416	5.78	36						
ATOM 3189 CG1 VAL A 416	ATOM	3188	CB	VAL	, A	416	4.83	37	32.839	55.813				
ATOM 3190 CG2 VAL A 416		3189	CG1	VAI	A	416	5.63	16	32.517				AAAA	
ATOM 3191 C VAL A 416 6.469 31.550 54.470 1.00 29.24 AAAA ATOM 3192 O VAL A 416 5.821 30.526 54.626 1.00 30.85 AAAA ATOM 3193 N VAL A 417 7.770 31.544 54.181 1.00 30.25 AAAA ATOM 3194 CA VAL A 417 8.492 30.276 54.003 1.00 33.97 AAAA ATOM 3195 CB VAL A 417 7.493 30.072 51.698 1.00 33.75 AAAA ATOM 3196 CG1 VAL A 417 7.493 30.072 51.698 1.00 36.76 AAAA ATOM 3197 CG2 VAL A 417 9.791 30.969 51.956 1.00 34.16 AAAA ATOM 3199 O VAL A 417 9.817 30.072 54.750 1.00 34.16 AAAA ATOM 3199 O VAL A 417 10.552 31.015 55.037 1.00 34.16 AAAA ATOM 3200 N SER A 418 10.096 28.802 55.032 1.00 36.16 AAAA ATOM 3201 CA SER A 418 11.301 28.327 55.713 1.00 34.99 AAAA ATOM 3202 CB SER A 418 12.461 28.335 54.737 1.00 36.95 AAAA ATOM 3203 OG SER A 418 12.760 29.638 54.276 1.00 40.19 AAAA ATOM 3204 C SER A 418 11.720 29.004 57.008 1.00 34.42 AAAA ATOM 3206 N LEU A 419 10.759 29.311 57.873 1.00 35.63 AAAA ATOM 3206 N LEU A 419 10.759 29.311 57.873 1.00 32.61 AAAA ATOM 3207 CA LEU A 419 10.075 29.942 59.160 1.00 31.43 AAAA ATOM 3200 CD LEU A 419 10.075 29.942 59.160 1.00 31.43 AAAA ATOM 3200 CD LEU A 419 10.075 29.311 57.873 1.00 27.05 AAAA ATOM 3201 CD LEU A 419 10.075 29.311 57.873 1.00 27.65 AAAA ATOM 3201 CD LEU A 419 10.076 28.923 60.301 1.00 36.91 AAAA ATOM 3201 CD LEU A 419 10.076 28.923 60.301 1.00 36.91 AAAA ATOM 3201 CD LEU A 419 10.078 31.057 59.450 1.00 27.05 AAAA ATOM 3210 CD LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3211 CD2 LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3214 N ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3215 CA ASN A 420 11.212 28.513 62.692 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.212 28.513 62.692 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.212 28.513 62.692 1.00 46.59 AAAA ATOM 3216 CB ASN A 420 11.212 28.513 62.692 1.00 46.59 AAAA ATOM 3216 CB ASN A 420 11.212 28.513 62.692 1.00 46.59 AAAA ATOM 3216 CB ASN A 420 11.212 28.513 62.692 1.00 46.59 AAAA ATOM 3217 CG ASN A 420 13.442 27.473 62.805 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 13.442 27.473 62.805 1.00 46.59 AAAA ATOM 3219 ND2 ASN A							4.13	24	34.186	55.968	1:00	31.37	AAAA	
ATOM 3192 O VAL A 416 5.821 30.526 54.626 1.00 30.85 AAAA ATOM 3193 N VAL A 417 7.770 31.544 54.181 1.00 30.25 AAAA ATOM 3194 CA VAL A 417 8.492 30.276 54.003 1.00 33.97 AAAA ATOM 3195 CB VAL A 417 7.493 30.072 51.698 1.00 36.76 AAAA ATOM 3196 CG1 VAL A 417 7.493 30.072 51.698 1.00 36.76 AAAA ATOM 3197 CG2 VAL A 417 9.791 30.969 51.956 1.00 32.33 AAAA ATOM 3198 C VAL A 417 9.817 30.072 54.750 1.00 34.16 AAAA ATOM 3199 O VAL A 417 10.552 31.015 55.037 1.00 33.48 AAAA ATOM 3200 N SER A 418 10.096 28.802 55.032 1.00 36.16 AAAA ATOM 3201 CA SER A 418 11.301 28.327 55.713 1.00 34.99 AAAA ATOM 3202 CB SER A 418 12.481 28.335 54.737 1.00 36.95 AAAA ATOM 3203 OG SER A 418 12.760 29.638 54.276 1.00 40.19 AAAA ATOM 3204 C SER A 418 11.720 29.004 57.008 1.00 34.42 AAAA ATOM 3205 O SER A 418 12.760 29.638 54.276 1.00 40.19 AAAA ATOM 3206 N LEU A 419 10.759 29.311 57.873 1.00 32.61 AAAA ATOM 3207 CA LEU A 419 10.759 29.311 57.873 1.00 32.61 AAAA ATOM 3208 CB LEU A 419 10.075 29.942 59.160 1.00 31.43 AAAA ATOM 3208 CB LEU A 419 9.725 32.153 58.431 1.00 27.65 AAAA ATOM 3201 CD LEU A 419 9.725 32.153 58.431 1.00 27.65 AAAA ATOM 3210 CD1 LEU A 419 9.725 32.153 58.431 1.00 27.65 AAAA ATOM 3210 CD1 LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3211 CD2 LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3211 CD2 LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3211 CD2 LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3211 CD2 LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3211 CD2 LEU A 419 10.974 32.941 58.092 1.00 36.81 AAAA ATOM 3212 C LEU A 419 10.976 28.923 60.301 1.00 33.50 AAAA ATOM 3214 N ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3215 CA ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 46.59 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 46.59 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 46.59 AAAA ATOM 3217 CG ASN A 420 13.466 26.629 61.989 1.00 46.59 AAAA ATOM 3218 ODI ASN A 420 13.466 26.629 61.989 1.00 46.59 AAAA ATOM 3219 ND2 AS													AAAA	
ATOM 3193 N VAL A 417 7.770 31.544 54.181 1.00 30.25 AAAA ATOM 3194 CA VAL A 417 8.492 30.276 54.003 1.00 33.97 AAAA ATOM 3195 CB VAL A 417 7.493 30.072 51.698 1.00 36.76 AAAA ATOM 3197 CG2 VAL A 417 9.791 30.969 51.956 1.00 32.33 AAAA ATOM 3198 C VAL A 417 9.817 30.072 51.698 1.00 34.16 AAAA ATOM 3199 O VAL A 417 10.552 31.015 55.037 1.00 34.16 AAAA ATOM 3200 N SER A 418 10.096 28.802 55.032 1.00 36.16 AAAA ATOM 3201 CA SER A 418 11.301 28.327 55.713 1.00 34.99 AAAA ATOM 3202 CB SER A 418 12.481 28.335 54.276 1.00 36.95 AAAA ATOM 3203 OG SER A 418 12.760 29.638 54.276 1.00 40.19 AAAA ATOM 3203 OG SER A 418 12.760 29.638 54.276 1.00 34.42 AAAA ATOM 3205 O SER A 418 11.720 29.004 57.008 1.00 34.42 AAAA ATOM 3205 O SER A 418 12.903 29.226 57.221 1.00 35.63 AAAA ATOM 3205 O SER A 418 10.075 9.9311 57.873 1.00 32.61 AAAA ATOM 3207 CA LEU A 419 10.759 9.9311 57.873 1.00 32.61 AAAA ATOM 3208 CB LEU A 419 10.028 31.057 59.450 1.00 28.09 AAAA ATOM 3208 CB LEU A 419 10.028 31.057 59.450 1.00 28.09 AAAA ATOM 3201 CDI LEU A 419 9.725 32.153 58.431 1.00 27.05 AAAA ATOM 3210 CDI LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3210 CDI LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3210 CDI LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3210 CDI LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3213 O LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3214 N ASN A 420 11.210 29.377 61.521 1.00 35.61 AAAA ATOM 3215 CA ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 46.59 AAAA ATOM 3218 ODI ASN A 420 13.442 27.473 62.805 1.00 46.59 AAAA ATOM 3218 ODI ASN A 420 13.442 27.473 62.805 1.00 46.59 AAAA ATOM 3218 ODI ASN A 420 13.442 27.473 62.805 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 13.406 26.629 61.989 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 13.406 26.629 61.989 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 13.406 26.629 61.989 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 13.406 26.629 61.989 1.00 46.59 AAAA ATOM 321													AAAA	
ATOM 3194 CA VAL A 417 8.492 30.276 54.003 1.00 33.97 AAAA ATOM 3195 CB VAL A 417 8.780 29.990 52.498 1.00 33.75 AAAA ATOM 3196 CG1 VAL A 417 7.493 30.072 51.698 1.00 36.76 AAAA ATOM 3197 CG2 VAL A 417 9.791 30.969 51.956 1.00 32.33 AAAA ATOM 3198 C VAL A 417 9.817 30.072 54.750 1.00 34.16 AAAA ATOM 3199 O VAL A 417 10.552 31.015 55.037 1.00 33.48 AAAA ATOM 3200 N SER A 418 10.096 28.802 55.032 1.00 36.16 AAAA ATOM 3201 CA SER A 418 11.301 28.327 55.713 1.00 34.99 AAAA ATOM 3202 CB SER A 418 12.481 28.335 54.737 1.00 36.95 AAAA ATOM 3203 OG SER A 418 12.760 29.638 54.276 1.00 40.19 AAAA ATOM 3204 C SER A 418 11.720 29.004 57.008 1.00 34.42 AAAA ATOM 3205 O SER A 418 11.720 29.004 57.008 1.00 34.42 AAAA ATOM 3206 N LEU A 419 10.759 29.311 57.873 1.00 35.63 AAAA ATOM 3207 CA LEU A 419 10.0759 29.311 57.873 1.00 32.61 AAAA ATOM 3208 CB LEU A 419 10.028 31.057 59.450 1.00 28.09 AAAA ATOM 3209 CG LEU A 419 10.028 31.057 59.450 1.00 28.09 AAAA ATOM 3209 CG LEU A 419 10.028 31.057 59.450 1.00 28.09 AAAA ATOM 3210 CD1 LEU A 419 8.666 33.082 59.011 1.00 27.00 AAAA ATOM 3210 CD1 LEU A 419 10.974 32.941 58.092 1.00 27.055 AAAA ATOM 3210 CD2 LEU A 419 10.974 32.941 58.092 1.00 27.05 AAAA ATOM 3213 O LEU A 419 10.974 32.941 58.092 1.00 27.05 AAAA ATOM 3214 N ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3215 CA ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3215 CA ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3215 CA ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3217 CG ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3215 CA ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3215 CA ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3215 CA ASN A 420 11.461 28.451 63.451 60.046.59 AAAA ATOM 3218 OD1 ASN A 420 13.066 26.629 61.989 1.00 46.79 AAAA ATOM 3218 OD1 ASN A 420 13.066 26.629 61.989 1.00 46.79 AAAA ATOM 3218 OD														
ATOM 3195 CB VAL A 417 8.780 29.990 52.498 1.00 33.75 AAAA ATOM 3195 CB VAL A 417 7.493 30.072 51.698 1.00 36.76 AAAA ATOM 3197 CG2 VAL A 417 9.791 30.969 51.956 1.00 32.33 AAAA ATOM 3198 C VAL A 417 9.817 30.072 54.750 1.00 34.16 AAAA ATOM 3199 O VAL A 417 10.552 31.015 55.037 1.00 33.48 AAAA ATOM 3200 N SER A 418 10.096 28.802 55.032 1.00 36.16 AAAA ATOM 3201 CA SER A 418 11.301 28.327 55.713 1.00 34.99 AAAA ATOM 3202 CB SER A 418 12.481 28.335 54.737 1.00 36.95 AAAA ATOM 3203 OG SER A 418 12.760 29.638 54.276 1.00 40.19 AAAA ATOM 3204 C SER A 418 11.720 29.004 57.008 1.00 34.42 AAAA ATOM 3205 O SER A 418 11.720 29.004 57.008 1.00 34.42 AAAA ATOM 3205 O SER A 418 12.760 29.638 54.276 1.00 34.42 AAAA ATOM 3205 O SER A 418 12.790 29.226 57.221 1.00 35.63 AAAAA ATOM 3205 O SER A 419 10.759 29.311 57.873 1.00 32.61 AAAAA ATOM 3207 CA LEU A 419 10.759 29.311 57.873 1.00 32.61 AAAAA ATOM 3208 CB LEU A 419 10.028 31.057 59.450 1.00 28.09 AAAA ATOM 3209 CG LEU A 419 9.725 32.153 58.431 1.00 27.05 AAAA ATOM 3210 CD1 LEU A 419 10.936 28.923 60.301 1.00 27.00 AAAA ATOM 3210 CD1 LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAAA ATOM 3212 C LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAAA ATOM 3213 O LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAAA ATOM 3213 O LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAAA ATOM 3214 N ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3215 CA ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 13.442 27.473 62.805 1.00 45.18 AAAA ATOM 3218 OD1 ASN A 420 13.442 27.473 62.805 1.00 45.18 AAAA ATOM 3218 OD1 ASN A 420 13.442 27.473 62.805 1.00 46.59 AAAA ATOM 3218 OD1 ASN A 420 13.462 27.473 62.805 1.00 45.18 AAAA ATOM 3218 OD1 ASN A 420 13.462 27.473 62.805 1.00 45.56 AAAA ATOM 3218 OD1 ASN A 420 13.462 27.473 62.805 1.00 45.56 AAAA ATOM 3218 OD1 ASN A 420 13.462 27.473 62.805 1.00 45.56 AAAA ATOM 3218 OD1 ASN A 420 13.462 27.473 63.499 1.00 46.59 AAAA ATOM 3														
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ATOM 3198 C VAL A 417 9.817 30.072 54.750 1.00 34.16 AAAA ATOM 3199 O VAL A 417 10.552 31.015 55.037 1.00 33.48 AAAA ATOM 3200 N SER A 418 10.096 28.802 55.032 1.00 36.16 AAAA ATOM 3201 CA SER A 418 11.301 28.327 55.713 1.00 34.99 AAAA ATOM 3202 CB SER A 418 12.481 28.335 54.737 1.00 36.95 AAAA ATOM 3203 OG SER A 418 12.760 29.638 54.276 1.00 40.19 AAAA ATOM 3203 OG SER A 418 12.760 29.638 54.276 1.00 40.19 AAAA ATOM 3205 O SER A 418 12.903 29.226 57.221 1.00 35.63 AAAA ATOM 3206 N LEU A 419 10.759 29.311 57.873 1.00 32.61 AAAA ATOM 3207 CA LEU A 419 10.028 31.057 59.450 1.00 31.43 AAAA ATOM 3208 CB LEU A 419 10.028 31.057 59.450 1.00 28.09 AAAA ATOM 3209 CG LEU A 419 9.725 32.153 58.431 1.00 27.65 AAAA ATOM 3210 CD1 LEU A 419 8.666 33.082 59.011 1.00 27.00 AAAA ATOM 3211 CD2 LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3213 O LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3213 O LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3213 C LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3213 O LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3215 CA ASNA 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.122 28.513 62.692 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.122 28.513 62.692 1.00 46.59 AAAA ATOM 3217 CG ASN A 420 13.442 27.473 62.805 1.00 45.18 AAAA ATOM 3218 OD1 ASN A 420 13.442 27.473 62.805 1.00 46.58 AAAA ATOM 3218 OD1 ASN A 420 13.442 27.473 62.805 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.578 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 13.066	ATOM	3197	CG2	VAI	. P	417	9.7	91	30.969	51.956				
ATOM 3199 O VAL A 417 10.552 31.015 55.037 1.00 33.48 AAAA ATOM 3200 N SER A 418 10.096 28.802 55.032 1.00 36.16 AAAA ATOM 3201 CA SER A 418 11.301 28.327 55.713 1.00 34.99 AAAA ATOM 3202 CB SER A 418 12.481 28.335 54.737 1.00 36.95 AAAA ATOM 3203 OG SER A 418 12.760 29.638 54.276 1.00 40.19 AAAA ATOM 3204 C SER A 418 11.720 29.004 57.008 1.00 34.42 AAAA ATOM 3205 O SER A 418 12.903 29.226 57.221 1.00 35.63 AAAA ATOM 3206 N LEU A 419 10.759 29.311 57.873 1.00 32.61 AAAA ATOM 3207 CA LEU A 419 11.037 29.942 59.160 1.00 31.43 AAAA ATOM 3208 CB LEU A 419 10.028 31.057 59.450 1.00 28.09 AAAA ATOM 3209 CG LEU A 419 9.725 32.153 58.431 1.00 27.65 AAAA ATOM 3210 CD1 LEU A 419 8.666 33.082 59.011 1.00 27.00 AAAA ATOM 3211 CD2 LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3213 O LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3213 O LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3213 CA ASON A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3215 CA ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3215 CA ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3217 CG ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3217 CG ASN A 420 13.442 27.473 62.805 1.00 45.18 AAAA ATOM 3216 CB ASN A 420 13.442 27.473 62.805 1.00 45.18 AAAA ATOM 3218 OD1 ASN A 420 13.442 27.473 62.805 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.78 AAAA		3198	С	VAI	. A	417	9.8	17	30.072	54.750			AAAA	
ATOM 3200 N SER A 418 10.096 28.802 55.032 1.00 36.16 AAAA ATOM 3201 CA SER A 418 11.301 28.327 55.713 1.00 34.99 AAAA ATOM 3202 CB SER A 418 12.481 28.335 54.737 1.00 36.95 AAAA ATOM 3203 OG SER A 418 12.760 29.638 54.276 1.00 40.19 AAAA ATOM 3204 C SER A 418 11.720 29.004 57.008 1.00 34.42 AAAA ATOM 3205 O SER A 418 12.903 29.226 57.221 1.00 35.63 AAAA ATOM 3206 N LEU A 419 10.759 29.311 57.873 1.00 32.61 AAAA ATOM 3207 CA LEU A 419 11.037 29.942 59.160 1.00 31.43 AAAA ATOM 3208 CB LEU A 419 10.028 31.057 59.450 1.00 28.09 AAAA ATOM 3209 CG LEU A 419 9.725 32.153 58.431 1.00 27.65 AAAA ATOM 3210 CD1 LEU A 419 8.666 33.082 59.011 1.00 27.00 AAAA ATOM 3211 CD2 LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3212 C LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3213 O LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3214 N ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3215 CA ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.210 29.377 61.521 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.212 28.513 62.692 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 13.442 27.473 62.805 1.00 45.18 AAAA ATOM 3218 OD1 ASN A 420 13.442 27.473 62.805 1.00 45.18 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.59 AAAA				VAT	. 2	417	10.5	52	31.015	55.037	1.00	33.48	AAAA	
ATOM 3201 CA SER A 418 11.301 28.327 55.713 1.00 34.99 AAAA ATOM 3202 CB SER A 418 12.481 28.335 54.737 1.00 36.95 AAAA ATOM 3203 OG SER A 418 12.760 29.638 54.276 1.00 40.19 AAAA ATOM 3205 O SER A 418 11.720 29.004 57.008 1.00 34.42 AAAA ATOM 3206 N LEU A 419 10.759 29.311 57.873 1.00 35.63 AAAA ATOM 3207 CA LEU A 419 11.037 29.925 57.221 1.00 35.63 AAAA ATOM 3208 CB LEU A 419 10.028 31.057 59.450 1.00 28.09 AAAA ATOM 3209 CG LEU A 419 9.725 32.153 58.431 1.00 27.65 AAAA ATOM 3210 CD1 LEU A 419 8.666 33.082 59.011 1.00 27.00 AAAA ATOM 3211 CD2 LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3212 C LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3213 O LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3214 N ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3215 CA ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3216 CB ASN A 420 11.212 28.513 62.692 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 11.122 28.513 62.692 1.00 40.65 AAAA ATOM 3217 CG ASN A 420 13.442 27.473 62.805 1.00 45.18 AAAA ATOM 3218 OD1 ASN A 420 13.442 27.473 62.805 1.00 45.18 AAAA ATOM 3218 OD1 ASN A 420 13.066 26.629 61.989 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.59 AAAA AAAA ATOM 3219 ND2 ASN A 420 13.066 26.629 61.989 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 14.709 27.575 63.199 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 14.709 27.575 63.199 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 14.709 27.575 63.199 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 14.709 27.575 63.199 1.00 46.78 AAAA AAAA ATOM 3219 ND2 ASN A 420 14.709 27.575 63.199 1.00 46.59 AAAA										55.032			AAAA	
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ATOM 3209 CG LEU A 419 9.725 32.153 58.431 1.00 27.65 AAAA ATOM 3210 CD1 LEU A 419 8.666 33.082 59.011 1.00 27.00 AAAA ATOM 3211 CD2 LEU A 419 10.974 32.941 58.092 1.00 26.15 AAAA ATOM 3212 C LEU A 419 10.936 28.923 60.301 1.00 33.50 AAAA ATOM 3213 O LEU A 419 10.602 27.761 60.088 1.00 32.61 AAAA ATOM 3214 N ASN A 420 11.210 29.377 61.521 1.00 36.81 AAAA ATOM 3215 CA ASN A 420 11.122 28.513 62.692 1.00 37.79 AAAA ATOM 3216 CB ASN A 420 12.461 28.451 63.436 1.00 40.65 AAAA ATOM 3217 CG ASN A 420 13.442 27.473 62.805 1.00 45.18 AAAA ATOM 3218 OD1 ASN A 420 13.066 26.629 61.989 1.00 46.59 AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.78 AAAA ATOM 3219 ND2 ASN A 420 14.709 27.572 63.199 1.00 46.78 AAAA										59.450	1.00	28.09	AAAA	
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ATOM 3219 ND2 ASN A 420 14.703 27.302 00.203 1.00.36 56 AAAA													AAAA	
MION 3220 C AGN A 420 10.019 20.347 03.002 1.00 07.11												36.56	AAAA	
	MIOM	J220	-	A)		20	10.0		20.537					

ATOM	3221	0	ASN 2	A 420	9.961	28.448	64.784	1.00 38.66	AAAA
ATOM .	3222	N		A 421	9.148	29.862	63.234	1.00 33.59	AAAA
ATOM	3223	CA		A 421				1.00 32.49	
					8.045	30.326	64.082		AAAA
ATOM	3224	CB		A 421	7.232	31.440	63.384	1.00 32.51	AAAA
ATOM	3225	CG2	ILE 2	A 421	8.113	32.635	63.119	1.00 30.93	AAAA
ATOM	3226	CG1	ILE :	A 421	6.669	30.917	62.053	1.00 34.10	AAAA
ATOM	3227		ILE		5.656	31.835	61.402	1.00 29.68	AAAA
ATOM	3228	C		A 421	7.106	29.149	64.376	1.00 31.48	AAAA
ATOM	3229	0	ILE 2	A 421	6.994	28.236	63.562	1.00 32.07	AAAA
ATOM	3230	N	THR :	A 422	6.438	29.160	65.527	1.00 30.70	AAAA
MOTA	3231	CA	THR	A 422	5.528	28.066	65.880	1.00 31.45	AAAA
ATOM	3232	CB		A 422	5.677		67.363	1.00 29.91	
						27.647			AAAA
ATOM	3233		THR :		5.460	28.777	68.211	1.00 32.39	AAAA
ATOM	3234	CG2	THR :	A 422	7.052	27.075	67.614	1.00 29.53	AAAA
ATOM	3235	C	THR :	A 422	4.054	28.370	65.607	1.00 32.25	AAAA
ATOM	3236	0	THR	A 422	3.216	27.469	65.620	1.00 31.88	AAAA
ATOM	3237	N		A 423	3.747				
						29.646	65.390	1.00 32.71	AAAA
ATOM	3238	CA		A 423	2.402	30.095	65.059	1.00 33.06	AAAA
ATOM	3239	CB	SER .	A 423	1.598	30.400	66.313	1.00 33.84	AAAA
ATOM	3240	OG	SER	A 423	2.213	31.405	67.074	1.00 36.69	AAAA
ATOM	3241	С		A 423	2.576	31.349	64.212	1.00 34.36	AAAA
ATOM	3242	0		A 423	3.672	31.915	64.157	1.00 34.06	AAAA
ATOM	3243	N	LEU .	A 424	1.519	31.780	63.531	1.00 33.03	AAAA
ATOM	3244	CA	LEU .	A 424	1.647	32.959	62.680	1.00 32.77	AAAA
ATOM	3245	CB	LEH	A 424	0.648	32.889	61.514	1.00 28.78	AAAA
ATOM	3246	CG		A 42	1.046	31.884	60.426	1.00 27.49	AAAA
ATOM	3247	CD1	LEU .	A 424	-0.072	31.712	59.421	1.00 24.33	AAAA
ATOM	3248	CD2	LEU	A 424	2.309	32.364	59.728	1.00 25.45	AAAA
ATOM	3249	С	LEU	A 42	1.506	34.273	63.441	1.00 32.75	AAAA
ATOM	3250	ō		A 42	2.299				AAAA
						35.188	63.247	1.00 33.59	
MOTA	3251	N		A 42		34.363	64.305	1.00 33.28	AAAA
ATOM	3252	CA	GLY	A 425	0.304	35.576	65.074	1.00 32.96	AAAA
ATOM	3253	С	GLY	A 425	-0.436	36.697	64.369	1.00 34.18	AAAA
ATOM	3254	0		A 42		37.721	64.993	1.00 34.58	AAAA
ATOM									
	3255	N		A 420		36.507	63.093	1.00 34.49	AAAA
ATOM	3256	CA		A 42		37.543	62.314	1.00 33.89	AAAA
ATOM	3257	CB	LEU	A 42	-1.389	37.188	60.830	1.00 30.87	AAAA
MOTA	3258	CG	LEU	A 42	0.084	37.020	60.438	1.00 31.97	AAAA
ATOM	3259	CD1	LEU	A 42	0.220	36.529	59.013	1.00 31.84	AAAA
ATOM	3260		LEU			38.343	60.634	1.00 29.65	AAAA
ATOM	3261	С		A 42		37.796	62.754	1.00 34.97	<b>A</b> AAA
MOTA	3262	0	LEU	A 42	-3.858	37.610	61.986	1.00 34.20	AAAA
ATOM	3263	N	ARG	A 42'	-3.036	38.261	63.997	1.00 34.55	AAAA
ATOM	3264	CA	ARG	A 42	-4.318	38.548	64.636	1.00 35.84	AAAA
ATOM	3265	СВ		A 42			66.057	1.00 36.41	AAAA
ATOM	3266	CG		A 42		37.995	67.043	1.00 37.26	AAAA
MOTA	3267	CD	ARG	A 42	-3.520	38.607	68.419	1.00 37.41	AAAA
MOTA	3268	NE	ARG	A 42	-3.190	37.575	69.393	1.00 43.51	AAAA
MOTA	3269	C7	ARG	A 42	-2.860	37.805	70.658	1.00 46.53	AAAA
ATOM	3270	NIL 1	ARG			39.046	71.131		
								1.00 48.65	AAAA
MOTA	3271		ARG					1.00 47.88	AAAA
ATOM	3272	С	ARG	A 42	-5.257	39.536	63.965	1.00 36.57	AAAA
ATOM	3273	0	ARG	A 42	-6.468	39.431	64.098	1.00 38.92	AAAA
ATOM	3274	N	SER	A 42	-4.711	40.510	63.266	1.00 37.48	AAAA
ATOM	3275	CA		A 42		41.501	62.639	1.00 39.29	AAAA
ATOM	3276	CB		A 42		42.867	62.846	1.00 43.18	AAAA
ATOM	3277	OG	SER	A 42	-4.542	43.035	64.203	1.00 46.22	AAAA
ATOM	3278	C	SER	A 42	-5.809	41.272	61.150	1.00 39.61	AAAA
MOTA	3279	0	SER	A 42	-6.681	41.910	60.575	1.00 39.07	AAAA
ATOM	3280	N		A 42					AAAA
						40.358	60.536	1.00 38.24	
ATOM	3281	CA		A 42		40.083	59.116	1.00 36.09	AAAA
ATOM	3282	CB	LEU	A 42	-4.219	39.004	58.689	1.00 30.99	AAAA
ATOM	3283	CG	LEU	A 42	-4.113	38.800	57.181	1.00 30.43	AAAA
ATOM	3284		LEU			40.021	56.528	1.00 29.94	AAAA
MOTA	3285		LEU			37.569	56.898	1.00 30.87	AAAA
ATOM	3286	С		A 42		39.665	58.771	1.00 38.33	AAAA
ATOM	3287	0	LEU	A 42	-7.033	38.516	58.974	1.00 39.25	AAAA
ATOM	3288	N		A 43		40.606	58.224	1.00 39.92	AAAA
ATOM	3289	CA		A 43		40.357	57.882	1.00 41.82	AAAA
ATOM	3290	CB		A 43		41.413		1.00 43.00	AAAA
MOTA	3291	CG		A 43		41.335	60.088	1.00 48.52	AAAA
ATOM	3292	CD	LYS	A 43	-9.634	42.728	60.734	1.00 53.32	AAAA
ATOM	3293	CE		A 43		42.678		1.00 54.90	AAAA
ATOM	3294	NZ		A 43		44.051	62.867	1.00 54.69	AAAA
ATOM	3295	С	PIS	A 43	-9.074	40.303	56.387	1.00 42.89	AAAA

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ATOM	3296	0	LYS	A	430	-10.123	39.813	55.983	1.00 44.73	1 AAAA
ATOM	3297	N	GLU			-8.151	40.780	55.560	1.00 42.43	2 AAAA
	3298	CA	GLU			-8.381	40.762	54.121	1.00 41.3	
ATOM									1.00 42.7	
ATOM	3299	CB	GLU			-9.152	42.015	53.685		
ATOM	3300	CG	GLU			-9.326	42.095	52.159	1.00 43.5	
ATOM	3301	CD	GLU	Α	431	-9.871	43.423	51.657	1.00 45.5	7 адаа
ATOM	3302	OE1	GLU	Α	431	-10.408	44.221	52.456	1.00 45.2	4 AAAA
ATOM	3303	OE2	GLU	А	431	-9.772	43.663	50.437	1.00 47.3	4 AAAA
ATOM	3304	C	GLU			-7.151	40.667	53.233	1.00 40.3	
								53.384	1.00 41.5	
ATOM	3305	0	GLU			-6.209	41.440			
ATOM	3306	N	ILE			-7.174	39.731	52.290	1.00 38.9	
ATOM	3307	CA	ILE	Α	432	-6.088	39.602	51.322	1.00 37.5	
ATOM	3308	CB	ILE	Α	432	-5.366	38.234	51.420	1.00 36.2	2 AAAA
ATOM	3309	CG2	ILE	Α	432	-4.167	38.206	50.460	1.00 30.3	5 AAAA
ATOM	3310		ILE			-4.893	38.011	52.857	1.00 34.7	8 AAAA
	3311		ILE			-4.082	36.738	53.076	1.00 37.0	
ATOM										
ATOM	3312	С	ILE			-6.779	39.772	49.958	1.00 38.1	
ATOM	3313	0	ILE	Α	432	-7.171	38.797	49.297	1.00 37.8	
MOTA	3314	N	SER	Α	433	-6.951	41.043	49.593	1.00 36.6	5 AAAA
ATOM	3315	CA	SER	Α	433	-7.606	41.496	48.369	1.00 36.1	3 AAAA
ATOM	3316	CB	SER			-7.129	42.900	48.028	1.00 34.6	2 AAAA
	3317	OG			433	-7.441	43.787	49.073	1.00 35.3	
ATOM										
MOTA	3318	С			433	-7.451	40.641	47.131	1.00 36.8	
MOTA	3319	0			433	-8.429	40.352	46.432	1.00 38.1	
ATOM	3320	N	ASP	Α	434	-6.217	40.256	46.850	1.00 34.8	9 AAAA
ATOM	3321	CA	ASP	Α	434	-5.930	39.468	45.668	1.00 32.1	4 AAAA
MOTA	3322	CB	ASP			-5.884	40.396	44.455	1.00 31.8	O AAAA
ATOM	3323	CG	ASP			-5.549	39.670	43.181	1.00 33.3	6 AAAA
			ASP			-5.022	40.331	42.255	1.00 35.8	
ATOM	3324									
ATOM	3325		ASP			-5.819	38.450	43.101	1.00 30.9	
ATOM	3326	С	ASP	Α	434	4.573	38.817	45.884	1.00 30.1	
ATOM	3327	0	ASP	Α	434	-3.877	39.155	46.840	1.00 28.2	8 AAAA
ATOM	3328	N	GLY	Α	435	-4.217	37.886	45.001	1.00 27.6	7 AAAA
ATOM	3329	CA			435	-2.945	37.195	45.090	1.00 26.2	3 AAAA
ATOM	3330	C			435	-3.050	35.891	45.854	1.00 26.7	
								46.636	1.00 25.1	
ATOM	3331	0			435	-3.981	35.692			
MOTA	3332	N			436	-2.106	34.986	45.630	1.00 25.9	
MOTA	3333	CA	ASP	Α	436	-2.157	33.733	46.351	1.00 29.1	
ATOM	3334	CB	ASP	Α	436	<del>-</del> 1.656	32.579	45.476	1.00 30.8	
ATOM	3335	CG	ASP	Α	436	-2.637	32.239	44.351	1.00 34.4	5 AAAA
ATOM	3336	OD1	ASP	Α	436	-3.809	32.677	44.424	1.00 32.3	4 AAAA
ATOM	3337		ASP			-2.240	31.534	43.397	1.00 35.8	
	3338	C			436	-1.378	33.805	47.658	1.00 29.9	
MOTA	3339	0			436	-0.594	34.735	47.892	1.00 28.3	
MOTA	3340	N ,	VAL	Α	437	-1.628	32.825	48.516	1.00 28.6	
ATOM	3341	CA	VAL	Α	437	-0.990	32.756	49.812	1.00 26.5	5 AAAA
ATOM	3342	CB	VAL	Α	437	-2.031.	32.726	50.922	1.00 24.8	8 AAAA
ATOM	3343	CG1	VAL	Α	437	-1.365	32.464	52.240	1.00 27.8	7 AAAA
ATOM	3344		VAL			-2.783	34.048	50.966	1.00 26.1	8 AAAA
ATOM	3345	C			437	-0.188	31.487	49.894	1.00 27.2	
						-0.724	30.419	49.651	1.00 30.2	-
MOTA	3346	0			437					
MOTA	3347	N			438	1.102		50.183	1.00 26.8	
ATOM	3348	CA			438	1.877	30.371	50.336	1.00 28.4	
MOTA	3349	CB	ILE	Α	438	2.871	30.135	49.192	1.00 27.3	
ATOM	3350	CG2	ILE	Α	438	3.805	31.333	49.025	1.00 25.9	
MOTA	3351	CG1	ILE	Α	438	3.641	28.836	49.473	1.00 26.8	6 AAAA
ATOM	3352		ILE			4.537	28.366	48.320	1.00 24.8	O AAAA
ATOM	3353	C			438	2.619	30.374	51.666	1.00 31.6	
								51.984	1.00 32.2	
ATOM	3354	0			438	3.390	31.284			
MOTA	3355	N			439	2.344	29.349		1.00 32.2	
MOTA	3356	CA	ILE	Α	439	2.966	29.196	53.755	1.00 32.4	
ATOM	3357	CB	ILE	A	439	1.945	29.395	54.835	1.00 32.1	5 AAAA
ATOM	3358	CG2	ILE	Α	439	2.581	29.176	56.174	1.00 31.7	AAAA 8
ATOM	3359		ILE			1.350			1.00 30.5	
	3360		ILE			0.295	31.100		1.00 33.4	
MOTA										
MOTA	3361	С			439	3.508	27.793	53.798	1.00 33.8	
MOTA	3362	0			439	2.811	26.873	54.197	1.00 36.5	
MOTA	3363	N	SER	Α	440	4.761	27.644	53.375	1.00 35.7	
MOTA	3364	CA	SER	A	440	5.420	26.349	53.293	1.00 37.1	O AAAA
MOTA	3365	CB			440	5.519	25.962	51.834	1.00 39.3	4 AAAA
ATOM	3366	OG			440	6.216	26.982	51.143	1.00 41.1	
	3367	C							1.00 38.9	
MOTA					440	6.826			1.00 30.9	
ATOM	3368	0			440		27.340			
MOTA	3369	N			441	7.264			1.00 37.4	
MOTA	3370	CA	GLY	A	441	8.598	24.881	54.773	1.00 35.1	4 AAAA

ATOM	3371	С	GLY	Α	441	8.885	25.428	56.161	1.00 35.38	AAAA
ATOM	3372	0	GLY	А	441	10.038	25.637	56.523	1.00 34.49	AAAA
ATOM	3373	N	ASN			7.841	25.669	56.939	1.00 35.17	AAAA
ATOM	3374	CA	ASN							
						8.000	26.174	58.294	1.00 37.72	AAAA
ATOM	3375	CB	ASN			6.924	27.238	58.602	1.00 37.77	AAA
ATOM	3376	CG	ASN	Α	442	6.881	28.361	57.565	1.00 39.67	AAAA
ATOM	3377	OD1	ASN	Α	442	7.788	29.197	57.488	1.00 39.02	AAAA
ATOM	3378	ND2	ASN	Α	442	5.823	28.376	56.755	1.00 38.53	AAAA
ATOM	3379	С	ASN	А	442	7.824	24.950	59.202	1.00 38.94	AAAA
ATOM	3380	Ō	ASN			6.761	24.746	59.773	1.00 38.15	
ATOM	3381									AAAA
		N	LYS			8.881	24.150	59.317	1.00 40.62	AAAA
MOTA	3382	CA	LYS			8.895	22.920	60.103	1.00 42.67	AAAA
ATOM	3383	CB	LYS	Α	443	10.334	22.448	60.289	1.00 45.06	AAAA
ATOM	3384	CG	LYS	Α	443	11.124	23.289	61.278	1.00 52.58	AAAA
ATOM	3385	CD	LYS	Α	443	12.613	22.930	61.254	1.00 56.29	AAAA
ATOM	3386	CE	LYS			13.415	23.836	62.177	1.00 57.90	AAAA
ATOM	3387	NZ	LYS			14.885	23.763	61.922	1.00 60.41	AAAA
ATOM	3388	C								
			LYS			8.206	22.896	61.466	1.00 42.88	AAAA
MOTA	3389	0	LYS			7.732	21.847	61.890	1.00 45.25	AAAA
ATOM	3390	N	ASN	Α	444	8.152	24.021	62.165	1.00 41.70	AAAA
MOTA	3391	CA	ASN	Α	444	7.515	24.031	63.476	1.00 40.04	AAAA
ATOM	3392	CB	ASN	Α	444	8.469	24.604	64.527	1.00 42.37	AAAA
MOTA	3393	CG	ASN			9.791	23.866	64.569	1.00 45.77	AAAA
ATOM	3394		ASN							
						9.835	22.650	64.779	1.00 47.22	AAAA
ATOM .	3395		ASN			10.879	24.597	64.364	1.00 47.29	AAAA
MOTA	3396	C	ASN	Α	444	6.222	24.824	63.506	1.00 39.97	AAAA
MOTA	3397	0	ASN	Α	444	5.632	25.024	64.570	1.00 42.75	AAAA
ATOM	3398	N	LEU	Α	445	5.779	25.286	62.350	1.00 36.08	AAAA
MOTA	3399	CA			445	4.556	26.057	62.290	1.00 35.34	AAAA
ATOM	3400	CB			445	4.513	26.794	60.962	1.00 33.87	
										AAAA
ATOM	3401	CG			445	3.384	27.773	60.718	1.00 28.34	AAAA
ATOM	3402		LEU			3.327	28.806	61.823	1.00 27.85	AAAA
ATOM	3403	CD2	LEU	A	445	3.637	28.414	59.375	1.00 31.22	AAAA
ATOM	3404	С	LEU	Α	445	3.333	25.152	62.442	1.00 35.86	AAAA
ATOM	3405	0	LEU	Α	445	3.112	24.267	61.625	1.00 35.00	AAAA
ATOM	3406	N			446	2.519	25.411	63.463	1.00 37.68	AAAA
ATOM	3407	CA			446	1.340	24.588	63.739	1.00 39.94	AAAA
ATOM	3408	C								
					446	-0.107	25.066	63.571	1.00 40.85	AAAA
ATOM	3409	0			446	-1.012	24.248	63.709	1.00 43.72	AAAA
ATOM	3410	CB			446	1.433	24.032	65.165	1.00 38.56	AAAA
MOTA	3411	SG	CYS	Α	446	2.359	22.483	65.301	1.00 43.91	AAAA
ATOM	3412	N			447	-0.392	26.327	63.296	1.00 40.76	AAAA
MOTA	3413	CA			447	-1.823	26.652	63.241	1.00 44.93	AAAA
ATOM	3414	CB			447	-2.156	27.704	64.318	1.00 46.01	AAAA
ATOM	3415	CG								
					447	-1.606	27.350		1.00 46.95	AAAA
ATOM	3416		TYR			-0.248	27.493	65.967	1.00 47.48	AAAA
ATOM	3417		TYR			0.278	27.099	67.190	1.00 47.21	AAAA
ATOM	3418	CD2	TYR	Α	447	-2.427	26.805	66.672	1.00 48.22	AAAA
ATOM	3419	CE2	TYR	Α	447	-1.907	26.408	67.903	1.00 47.96	AAAA
ATOM	3420	CZ	TYR	Α	447	-0.554	26.559	68.152	1.00 48.74	AAAA
ATOM	3421	OH			447	-0.028	26.175	69.365	1.00 51.61	AAAA
ATOM	3422	С			447	-2.387	27.075	61.886		
ATOM	3423	o			447	-3.606		61.710	1.00 46.56	AAAA
							27.157		1.00 46.01	AAAA
ATOM	3424	N			448	-1.486	27.325	60.940	1.00 46.82	AAAA
ATOM	3425	CA			448	-1.824	27.729	59.58 <b>7</b>	1.00 47.31	AAAA
MOTA	3426	CB	ALA	Α	448	-0.681	27.361	58.661	1.00 44.79	AAAA
MOTA	3427	С	ALA	A	448	-3.140	27.185	59.022	1.00 48.82	AAAA
ATOM	3428	0			448	-4.026	27.958	58.674	1.00 50.71	AAAA
ATOM	3429	N			449	-3.274	25.868	58.931	1.00 49.58	AAAA
ATOM	3430	CA			449					
						-4.484	25.260	58.373	1.00 50.05	AAAA
ATOM	3431	CB			449	-4.259	23.766	58.149	1.00 49.77	AAAA
ATOM	3432	CG			449	-3.356	23.486	56.974	1.00 51.26	AAAA
ATOM	3433	OD1	ASN	Α	449	-3.639	23.907	55.849	1.00 53.23	AAAA
MOTA	3434	ND2	ASN	Α	449	-2.260	22.771	57.221	1.00 50.42	AAAA
ATOM	3435	С	ASN	Α	449	-5.802	25.430	59.125	1.00 50.47	AAAA
ATOM	3436	ō			449	-6.848	25.059	58.610	1.00 51.49	AAAA
ATOM	3437	N			450	-5.774				
ATOM							25.978	60.331	1.00 51.52	AAAA
	3438	CA			450	-7.007	26.134	61.097	1.00 52.39	AAAA
ATOM	3439	CB			450	-6.724	26.354	62.589	1.00 52.88	AAAA
MOTA	3440				450	-6.066	27.614	62.766	1.00 54.14	AAAA
MOTA	3441	CG2	THR	A	450	-5.835	25.245	63.129	1.00 53.40	AAAA
MOTA	3442	С	THR	Α	450	-7.820	27.315	60.600	1.00 53.01	AAAA
ATOM	3443	0			450	-9.041	27.365	60.788	1.00 52.16	AAAA
ATOM	3444	N			451	-7.127	28.263		1.00 52.74	AAAA
ATOM	3445	CA			451					
AT ON	2-43	UA.	ىتىنىد	A	401	-7.755	29.467	59.444	1.00 51.33	AAAA

ATOM	3446	CB	ILE	Α	451	-6.744	30.608	59.247	1.00 51.16	AAAA
ATOM	3447	CG2				-7.480	31.920	59.018	1.00 51.22	AAAA
ATOM	3448	CG1				-5.837	30.729	60.471	1.00 51.46	AAAA
ATOM	3449		ILE			-4.352	30.743	60.113	1.00 48.45	AAAA
ATOM	3450	C			451	-8.370	29.187	58.091	1.00 50.88	AAAA
ATOM	3451	ō			451	-7.774	28.523	57.249	1.00 52.01	AAAA
ATOM	3452	N	ASN			-9.571	29.708	57.893	1.00 50.28	AAAA
ATOM	3453	CA			452	-10.289	29.559	56.640	1.00 48.28	AAAA
			ASN			-11.786	29.521	56.959	1.00 50.28	AAAA
ATOM	3454	CB						55.742	1.00 52.27	AAAA
ATOM	3455	CG			452	-12.645	29.681		1.00 55.29	AAAA
ATOM	3456		ASN			-12.314	29.193	54.652		
ATOM	3457	ND2				-13.771	30.361	55.914	1.00 52.62	AAAA
ATOM	3458	C	ASN			-9.897	30.774	55.784	1.00 46.01	AAAA
ATOM	3459	0			452	-10.528	31.826		1.00 45.30	AAAA
ATOM	3460	N			453	-8.838	30.623	54.996	1.00 43.40	AAAA
ATOM	3461	CA			453	-8.328	31.719	54.178	1.00 42.38	AAAA
MOTA	3462	CB			453	-7.031	31.306	53.488	1.00 41.37	AAAA
ATOM	3463	CG	TRP	Α	453	-5.991	30.839	54.442	1.00 41.57	AAAA
ATOM	3464	CD2	TRP	Α	453	-4.953	31.626	55.042	1.00 40.43	AAAA
MOTA	3465	CE2	TRP	Α	453	-4.247	30.783	55.918	1.00 40.31	AAAA
ATOM	3466	CE3	TRP	Α	453	-4.555	32.963	54.925	1.00 40.95	AAAA
ATOM	3467	CD1	TRP	Α	453	-5.872	29.591	54.962	1.00 41.60	AAAA
ATOM	3468		TRP			-4.830	29.547	55.851	1.00 42.67	AAAA
ATOM	3469		TRP			-3.160	31.228	56.676	1.00 39:77	AAAA
ATOM	3470		TRP			-3.472	33.407	55.682	1.00 38.55	AAAA
ATOM	3471		TRP			-2.790	32.539	56.544	1.00 37.51	AAAA
ATOM	3472	C			453	-9.272	32.288	53.141	1.00 42.53	AAAA
ATOM	3473	0			453	-9.234	33.483	52.865	1.00 41.19	AAAA
ATOM	3474	N			454	-10.103	31.430	52.558	1.00 44.87	AAAA
		CA			454	-11.053	31.849	51.540	1.00 45.02	AAAA
ATOM	3475							51.164	1.00 48.03	AAAA
ATOM	3476	CB			454	-11.972	30.689		1.00 51.58	AAAA
ATOM	3477	CG			454	-11.427	29.822	50.033		AAAA
ATOM	3478	CD			454	-12.354	28.655	49.709	1.00 54.35	
ATOM	3479	CE			454	-12.060	28.082	48.329	1.00 56.96	AAAA
ATOM	3480	NZ			454	-10.652	27.609	48.185	1.00 57.80	AAAA
ATOM	3481	Ç			454	-11.875	33.017	52.032	1.00 44.09	AAAA
ATOM	3482	0			454	-12.239	33.901	51.265	1.00 43.63	AAAA
MOTA	3483	N			455	-12.149	33.016	53.327	1.00 43.70	AAAA
ATOM	3484	CA	LYS	Α	455	-12.932	34.063	53.951	1.00 43.78	AAAA
ATOM	3485	CB			455	-13.313	33.637	55.368	1.00 45.95	AAAA
MOTA	3486	CG	LYS	A	455	-14.493	34.394	55.951	1.00 49.78	AAAA
MOTA	3487	CD	LYS	Α	455	-15.778	33.994	55.246	0.01 49.34	AAAA
MOTA	3488	CE	LYS	Α	455	-16.996	34.605	55.911	0.01 50.06	AAAA
MOTA	3489	NZ	LYS	Α	455	-18.258	34.130	55.279	0.01 50.24	AAAA
ATOM	3490	С	LYS	'Α	455	-12.183	35.392	53.998	1.00 43.75	AAAA
ATOM	3491	0	LYS	Α	455	-12.740	36.400	54.418	1.00 45.40	AAAA
ATOM	3492	N	LEU	Α	456	-10.923	35.399	53.577	1.00 43.62	AAAA
ATOM	3493	CA	LEU	Α	456	-10.131	36.628	53.577	1.00 42.08	AAAA
MOTA	3494	CB	LEU	Α	456	-8.759	36.393	54.202	1.00 41.82	AAAA
ATOM	3495	CG			456	-8.673	35.915	55.647	1.00 41.69	AAAA
ATOM	3496	CD1			456	-7.214	35.900	56.044	1.00 42.74	AAAA
ATOM	3497				456	-9.468	36.830		1.00 42.68	AAAA
ATOM	3498	С			456	-9.914	37.172	52.181	1.00 42.07	AAAA
ATOM	3499	ō			456	-9.553	38.337	52.024	1.00 42.40	AAAA
ATOM	3500	N			457	-10.110	36.317	51.177	1.00 42.04	AAAA
ATOM	3501	CA			457	-9.922	36.680	49.779	1.00 41.47	AAAA
ATOM	3502	CB			457	-9.892	35.429	48.908	1.00 41.04	AAAA
ATOM	3502	CG			457	-8.804	34.459	49.251	1.00 39.69	AAAA
ATOM					457	-7.586	34.898	49.756	1.00 40.78	AAAA
	3504				457		33.102	49.001	1.00 40.12	AAAA
MOTA	3505					-8.974		50.005	1.00 38.89	AAAA
ATOM	3506				457	-6.546	34.003			AAAA
ATOM	3507				457	-7.948	32.199	49.244	1.00 41.59	AAAA
ATOM	3508	CZ			457	-6.727	32.652	49.749	1.00 41.17	
ATOM	3509	C			457	-10.999	37.617	49.235	1.00 42.85	AAAA
ATOM	3510	0			457	-12.134	37.605	49.698	1.00 41.99	AAAA ·
ATOM	3511	N			458	-10.634	38.420	48.238	1.00 44.52	AAAA
ATOM	3512	CA			458	-11.580	39.348	47.644	1.00 45.53	AAAA
MOTA	3513	С			458	-11.497	39.346	46.125	1.00 47.01	AAAA
MOTA	3514	0			458	-11.856	40.333	45.474	1.00 46.65	AAAA
ATOM	3515	N			459	-11.025	38.233	45.567	1.00 45.77	AAAA
ATOM	3516	CA			459	-10.873	38.075	44.127	1.00 46.11	AAAA
ATOM	3517	CB			459	-9.486	38.600	43.672	1.00 44.48	AAAA
ATOM '	3518				459	-9.385	40.001	43.958	1.00 42.53	AAAA
ATOM	3519	CG2	THR	A	459	-9.281	38.384	42.187	1.00 41.79	AAAA
MOTA	3520	С	THR	. A	459	-11.012	.36.594	43.771	1.00 48.80	AAAA

TITION (	2501	_		_							
ATOM	3521	0	THR	Ą	459	-10.598	35.730	44.533	1.00	52.62	AAAA
ATOM	3522	N	SER	Α	460	-11.605	36.292	42.623	1.00	50.60	AAAA
ATOM	3523	CA	SER	Α	460	-11.774	34.898	42.210	1.00	51.81	AAAA
MOTA	3524	CB			460	-12.620	34.802	40.930	1.00		
ATOM	3525	OG									AAAA
					460	-13.932	35.308	41.121	1.00		AAAA
ATOM	3526	С			460	-10.423	34.274	41.932	1.00	51.47	AAAA
ATOM	3527	0	SER	Α	460	-9.458	34.974	41.649	1.00	53.37	AAAA
ATOM	3528	N	GLY	Α	461	-10.352	32.955	42.013	1.00		AAAA
ATOM	3529	CA	GLY			-9.103	32.282	41.717	1.00		
ATOM	3530										AAAA
		С	GLY			-8.018	32.331	42.770	1.00		AAAA
ATOM	3531	0	GLY	Α	461	-6.972	31.701	42.592	1.00	49.77	AAAA
ATOM	3532	N	GLN	Α	462	-8.235	33.081	43.847	1.00	49.44	AAAA
ATOM	3533	CA	GLN	Α	462	-7.235	33.143	44.912	1.00	49 09	AAAA
ATOM	3534	СВ			462	-7.569	34.238	45.942	1.00		
ATOM	3535										AAAA
		CG			462	-7.213	35.662	45.499	1.00		AAAA
ATOM	3536	CD	GLN			-7.292	36.685	46.631	1.00	47.07	AAAA
ATOM	3537	OE1	GLN	Α	462	-8.365	37.194	46.960	1.00	46.57	AAAA
ATOM	3538	NE2	GLN	Α	462	-6.149	36.979	47.235	1.00	44 90	AAAA
MOTA	3539	С	GLN			-7.198	31.778	45.597	1.00		
ATOM	3540	ō									AAAA
			GLN			-8.236	31.216	45.933	1.00		AAAA
MOTA	3541	N	LYS			-5.998	31.241	45.775	1.00	48.44	AAAA
ATOM	3542	CA	LYS	Α	463	~5.831	29.951	46.422	1.00	47.72	AAAA
MOTA	3543	CB	LYS	Α	463	-5.645	28.849	45.376	1.00	48.78	AAAA
ATOM	3544	CG	LYS	Д	463	-4.507	29.064	44.408	1.00		AAAA
ATOM	3545	CD	LYS								
						-4.454	27.919	43.409	1.00		AAAA
MOTA	3546	CE			463	-3.559	28.241	42.211	1.00	52.58	AAAA
ATOM	3547	NZ	LYS	Α	463	-2.137	28.476	42.596	1.00	54.20	AAAA
ATOM	3548	C	LYS	Α	463	-4.650	29.960	47.383	1.00	46.69	AAAA
ATOM	3549	0	LYS	Α	463	-3.853	30.899	47.406	1.00		AAAA
MOTA	3550	N	THR			-4.550	28.908				
ATOM	3551							48.184	1.00		AAAA
		CA	THR			-3.470	28.801	49.147	1.00		AAAA
ATOM	3552	CB	THR	A	464	-4.001	28.614	50.590	1.00	43.35	AAAA
MOTA	3553	OG1	THR	Α	464	-4.593	27.312	50.723	1.00	42.98	AAAA
ATOM	3554	CG2	THR	Α	464	-5.023	29.675	50.932	1.00	42.00	AAAA
ATOM	3555	С	THR			-2.571	27.613	48.846	1.00		
ATOM	3556	ō									AAAA
			THR			-2.947	26.690	48.131	1.00		AAAA
ATOM	3557	N	LYS			-1.368	27.659	49.389	1.00	43.85	AAAA
ATOM	3558	CA	LYS	Α	465	-0.423	26.573	49.245	1.00	44.57	AAAA
MOTA	3559	CB	LYS	Α	465	0.658	26.910	48.225	1.00	44.79	AAAA
ATOM	3560	CG	LYS	Α	465	1.372	25.686	47.682	1.00		AAAA
ATOM	3561	CD	LYS			0.422	24.809	46.877			
ATOM	3562								0.01		AAAA
		CE	LYS			1.139	23.610	46.276	0.01	46.84	AAAA
MOTA	3563	NZ	LYS			1.720	22.726	47.322	0.01	47.05	AAAA
MOTA	3564	С	LYS	Α	465	0.153	26.516	50.645	1.00	44.75	AAAA
ATOM	3565	0	LYS	Α	465	1.200	27.089	50.927	17.700	25 R9	AAAA
ATOM	3566	N	ILE	Δ	466	-0.570	25.845	51.529	1.00		AAAA
ATOM	3567	CA	ILE								
						-0.166	25.739	52.914	1.00		AAAA
ATOM	3568	CB	ILE			-1.285	26.223	53.807	1.00	44.65	AAAA
MOTA	3569	CG2	ILE	A	466	-0.807	26.309	55.233	1.00	45.36	AAAA
ATOM	3570	CG1	ILE	Α	466	-1.748	27.588	53.307	1.00	45.22	AAAA
ATOM	3571	CD1	ILE	Α	466	-2.812	28.215	54.127	1.00		AAAA
ATOM	3572	С			466	0.210	24.328	53.299	1.00		
ATOM	3573	ō									AAAA
			ILE			-0.518	23.646	54.013	1.00		AAAA
ATOM	3574	N	ILE			1.373	23.899	52.833	1.00		AAAA
MOTA	3575	CA	ILE	A	467	1.846	22.559	53.116	1.00	49.19	AAAA
ATOM	3576	CB	ILE	Α	467	1.717	21.692	51.853	1.00		AAAA
ATOM	3577	CG2	ILE	Α	467	0.251	21.496	51.506	1.00		AAAA
MOTA	3578		ILE			2.431	22.373		1.00		
ATOM	3579							50.678			AAAA
			ILE			3.940	22.312	50.739	1.00		AAAA
MOTA	3580	С	ILE			3.295	22.493	53.607	1.00	48.40	AAAA
ATOM	3581	0	ILE	Α	467	4.030	23.484	53.619	1.00	47.26	AAAA
ATOM	3582	N	SER	Α	468	3.686	21.291	54.006	1.00		AAAA
ATOM	3583	CA	SER			5.034	21.006	54.463	1.00		AAAA
ATOM	3584	СВ			468	6.010	21.109				
								53.294	1.00		AAAA
ATOM	3585	OG			468	5.651	20.212	52.254	1.00		AAAA
MOTA	3586	С	SER	А	468	5.543	21.848	55.605	1.00	43.11	AAAA
MOTA	3587	0	SER	Α	468	6.711	22.216	55.627	1.00		AAAA
ATOM	3588	N	ASN	Α	469	4.672	22.167	56.550	1.00		AAAA
ATOM	3589	CA	ASN			5.100	22.928	57.715			
ATOM	3590								1.00		AAAA
		CB	ASN			4.064	23.994	58.090	1.00		AAAA
ATOM	3591	CG	ASN			3.833	24.996	56.970	1.00	37.70	AAAA
MOTA	3592		ASN			4.775	25.583	56.443	1.00	38.17	AAAA
ATOM	3593	ND2	ASN	Α	469	2.581	25.190	56.598	1.00		AAAA
ATOM	3594	С	ASN			5.213	21.873				
ATOM	3595	Ö	ASN					58.803	1.00		AAAA
111 011	JJ 9J	U	V214	~	409	5.903	20.869	58.632	1.00	44.03	AAAA

ATOM	3596	N	ARG	Α	470	4.534	22.078	59.918	1.00 42.59	AAAA
MOTA	3597	CA	ARG			4.573	21.103	60.984	1.00 42.94 1.00 45.13	AAAA AAAA
ATOM ATOM	3598 3599	CB CG	ARG ARG			4.503 4.333	21.812	62.328 63.505	1.00 45.13	AAAA
ATOM	3600	CD	ARG			5.638	20.541	64.154	1.00 48.55	AAAA
ATOM	3601	NE	ARG	A	470	5.389	20.106	65.519	1.00 52.65	AAAA
MOTA	3602	CZ			470	6.295	20.118	66.486	1.00 54.17	AAAA
ATOM	3603		ARG			7.526	20.550 19.698	66.237 67.700	1.00 54.15 1.00 55.65	AAAA AAAA
ATOM ATOM	3604 3605	NH2 C	ARG		470	5.965 3.383	20.156	60.826	1.00 44.03	AAAA
ATOM	3606	0			470	2.236	20.591	60.682	1.00 43.57	AAAA
ATOM	3607	N			471	3.664	18.860	60.856	1.00 44.61	AAAA
MOTA	3608	CA			471	2.616	17.869	60.715	1.00 44.98	AAAA
ATOM	3609	C			471	1.474	18.000 18.166	61.701 62.906	1.00 46.17 1.00 45.23	AAAA AAAA
ATOM ATOM	3610 3611	N O			471 472	1.672 0.260	17.918	61.176	1.00 48.40	AAAA
ATOM	3612	CA			472	-0.928	18.013	62.003	1.00 50.67	AAAA
ATOM	3613	CB	GLÜ	A	472	-2.165	17.702	61.166	1.00 53.84	AAAA
MOTA	3614	CG			472	-3.380	17.312	61.982	1.00 59.03 1.00 63.13	AAAA AAAA
ATOM	3615 3616	CD	GLU		472	-4.469 -5.367	16.700 16.031	61.126 61.693	1.00 65.10	AAAA
ATOM ATOM	3617		GLU			-4.425	16.892	59.886	1.00 64.02	AAAA
ATOM	3618	c			472	-0.846	17.050	63.186	1.00 49.96	AAAA
ATOM	3619	0			472	-1.019	17.453	64.333	1.00 50.79	AAAA
MOTA	3620	N			473	-0.575	15.780	62.907	1.00 48.62 1.00 48.39	AAAA AAAA
MOTA	3621 3622	CA CB			473 473	-0.492 -0.056	14.783 13.431	63.963 63.397	1.00 47.07	AAAA
MOTA MOTA	3623	CG			473	-1.200	12.691	62.708	1.00 46.40	AAAA
ATOM	3624		ASN			-2.310	12.588	63.248	1.00 43.02	AAAA
MOTA	3625		ASN			-0.929	12.159	61.522	1.00 44.74	AAAA
ATOM	3626	C			473	0.435	15.193	65.090 66.264	1.00 49.66 1.00 49.64	AAAA AAAA
ATOM ATOM	3627 3628	O N			473 474	0.094 1.607	15.049 15.711	64.748	1.00 50.90	AAAA
MOTA	3629	CA			474	2.534	16.137	65.783	1.00 50.94	AAAA
ATOM	3630	CB			474	3.899	16.465	65.195	1.00 51.45	AAAA
MOTA	3631	OG			474	4.770	16.886	66.228	1.00 54.04	AAAA
ATOM	3632	C			474 474	2.007 2.227	17.359 17.495	66.521 67.722	1.00 50.76 1.00 51.37	AAAA AAAA
MOTA MOTA	3633 3634	O N			475	1.314	18.251	65.816	1.00 49.87	AAAA
ATOM	3635	CA			475	0.783	19.449	66.466	1.00 48.85	AAAA
ATOM	3636	C			475	-0.246	19.052	67.499	1.00 49.66	AAAA
MOTA	3637	0			475	-0.312 0.130	19.631 20.394	68.583 65.454	1.00 49.50 1.00 46.50	AAAA AAAA
MOTA MOTA	3638 3639	CB SG			475	1.266	21.133	64.240	1.00 42.41	AAAA
MOTA	3640				476	-1.046	18.051	67.148	1.00 52.03	AAAA
ATOM	3641	CA			476	-2.106	17.548	68.022	1.00 52.81	AAAA
ATOM	3642	CB			476	-3.031	16.613	67.227 67.785	1.00 55.35 1.00 61.66	AAAA AAAA
ATOM	3643	CG			476	-4.443 -5.405	16.506 15.840	66.796	1.00 65.69	AAAA
ATOM ATOM	3644 3645	CE			476	-5.264	14.309	66.744	1.00 68.85	AAAA
ATOM	3646	NZ			476	-5.847	13.598	67.932	1.00 69.54	AAAA
ATOM	3647	C			476	-1.487	16.818	69.210	1.00 50.45	АААА АААА
ATOM	3648	0			476	-1.892 -0.489	17.018 15.986	70.348 68.930	1.00 47.99 1.00 51.12	AAAA
ATOM ATOM	3649 3650	N CA			477	0.204	15.229	69.963	1.00 51.29	AAAA
ATOM	3651	CB			477	1.275	14.356	69.341	1.00 51.02	AAAA
MOTA	3652	C			477	0.827	16.172	70.975	1.00 52.53	AAAA
MOTA	3653	0			477	0.643 1.569	16.004	72.177 70.491	1.00 53.87 1.00 53.47	АААА АААА
ATOM ATOM	3654 3655	N CA			478	2.200	17.162 18.132	71.376	1.00 53.47	AAAA
ATOM	3656	CB			478	3.342	18.874	70.669	1.00 54.79	AAAA
MOTA	3657		L TH	₹ 7	478	2.842	19.510	69.489	1.00 58.81	AAAA
ATOM	3658	CG:			478	4.444	17.908	70.276	1.00 55.30	АААА АААА
MOTA	3659	С			478	1.154	19.141 20.154	71.847 72.459	1.00 53.50 1.00 54.64	AAAA
MOTA MOTA	3660 3661	O N			478	1.472 -0.103	18.861	71.539	1.00 52.90	AAAA
ATOM	3662	CA			479	-1.180	19.727	71.981	1.00 53.02	AAAA
ATOM	3663	С	GL	Y F	479	-1.159	21.169	71.525	1.00 52.49	AAAA
ATOM	3664	0			479	-1.599	22.064	72.239	1.00 51.83 1.00 52.32	АААА АААА
ATOM	3665 3666				480	-0.661 -0.631	21.406 22.761	70.326 69.824	1.00 52.32	AAAA
ATOM ATOM	3666 3667	CA CB			480 480	0.693	23.030	69.120	1.00 52.67	AAAA
ATOM	3668				480	1.876	23.030	70.054	1.00 54.54	AAAA
MOTA	3669				A 480	3.093	23.628	69.405	1.00 56.91	АААА АААА
ATOM	3670	OE.	1 GL	N A	480	3.668	23.049	68.485	1.00 58.34	AAAA

MOTA	3671	NE2	GLN A	480	3.487	24.808	69.869	1.00 57.83	AAAA
ATOM	3672	С	GLN A		-1.788	23.001	68.877	1.00 50.03	AAAA
ATOM	3673	0	GLN A		-1.647	22.892	67.662	1.00 47.84	AAAA
ATOM	3674	N	VAL A		-2.944	23.317	69.437	1.00 49.57	AAAA
ATOM	3675	CA	VAL A		-4.105	23.581	68.605	1.00 51.29	AAAA
ATOM	3676	CB	VAL A		-5.072	22.377	68.573	1.00 50.90	AAAA
ATOM	3677		VAL A		-4.349	21.148	68.044	1.00 50.66	AAAA
ATOM	3678		VAL A		-5.634	22.119	69.961	1.00 50.27	AAAA
ATOM	3679	C	VAL A		-4.846	24.800	69.120	1.00 52.33	, AAAA
ATOM	3680	0	VAL A		-4.517	25.338	70.179	1.00 52.12	AAAA
ATOM ATOM	3681 3682	N	CYS A		-5.848	25.233	68.366	1.00 53.19	AAAA
ATOM	3683	CA	CYS A		-6.626	26.394	68.750	1.00 53.98	AAAA
ATOM	3684	0	CYS A		-7.256	26.222	70.117	1.00 55.63	AAAA
ATOM	3685	СВ	CYS A		-7.637	25.124	70.511	1.00 55.98	AAAA
ATOM	3686	SG	CYS A		-7.701 -7.031	26.675	67.703	1.00 52.65	AAAA
ATOM	3687	N	HIS A		-7.359	27.238	66.108	1.00 54.26	AAAA
ATOM	3688	CA	HIS A		-7.937	27.327 27.335	70.839	1.00 59.16	AAAA
ATOM	3689	CB	HIS A		-7.895	28.751	72.173 72.733	1.00 63.45	AAAA
ATOM	3690	CG	HIS A		-8.023	28.817	74.218	1.00 65.16 1.00 66.56	AAAA
MOTA	3691		HIS A		-8.966	29.381	75.007	1.00 67.48	AAAA AAAA
MOTA	3692		HIS A		-7.082	28.277	75.068	1.00 66.67	AAAA
ATOM	3693		HIS A		-7.439	28.509	76.318	1.00 67.73	AAAA
ATOM	3694		HIS A		-8.578	29.177	76.309	1.00 68.45	AAAA
ATOM	3695	С	HIS A		-9.379	26.830	72.169	1.00 65.33	AAAA
MOTA	3696	0	HIS A		-10.006	26.710	71.116	1.00 64.69	AAAA
MOTA	3697	N	ALA A	484	-9.906	26.554	73.356	1.00 67.96	AAAA
ATOM	3698	CA	ALA A	484	-11.267	26.052	73.488	1.00 70.13	AAAA
MOTA	3699	CB	ALA A	484	-11.511	25.593	74.912	1.00 70.69	AAAA
MOTA	3700	С	ALA A	484	-12.338	27.054	73.080	1.00 72.07	AAAA
ATOM	3701	0	ALA A	484	-13.415	26.656	72.646	1.00 73.28	AAAA
ATOM	3702	N	LEU A	485	-12.052	28.345	73.212	1.00 73.71	AAAA
ATOM	3703	CA	LEU A	485	-13.030	29.375	72.856	1.00 75.69	AAAA
ATOM	3704	CB	LEU A		-12.871	30.596	73.777	1.00 76.53	AAAA
ATOM	3705	CG	LEU A		-13.144	30.446	75.281	1.00 76.48	AAAA
ATOM	3706		LEU A		-12.062	29.603	75.924	1.00 76.81	AAAA
ATOM	3707		LEU A		-13.185	31.815	75.930	1.00 75.97	AAAA
ATOM ATOM	3708	C	LEU A		-12.906	29.830	71.402	1.00 76.77	AAAA
ATOM	3709 3710	O N	LEU A		-12.916	31.030	71.129	1.00 76.32	AAAA
ATOM	3711	CA	CYS A		-12.824	28.888	70.464	1.00 78.44	AAAA
ATOM	3712	C	CYS A		-12.639 -13.323	29.262	69.062	1.00 79.80	AAAA
ATOM	3713	0	CYS A		-12.796	28.408 28.240	68.005 66.903	1.00 82.17	AAAA
ATOM	3714	CB	CYS A		-11.145	29.290	68.788	1.00 83.24 1.00 78.19	AAAA
ATOM	3715	SG	CYS A		-10.311	30.096	70.176	1.00 75.70	AAAA
ATOM	3716	N	SER A		-14.503	27.886	68.320	1.00 84.00	AAAA AAAA
ATOM	3717	CA	SER A		-15.240	27.062	67.366	1.00 85.78	AAAA
ATOM	3718	CB	SER A		-16.669	26.819	67.874	1.00 87.85	AAAA
ATOM	3719	OG	SER A	487	-17.382	25.951	67.006	1.00 90.60	AAAA
ATOM	3720	C	SER A	487	-15.280	27.701	65.966	1.00 84.87	AAAA
ATOM	3721	0	SER A	487	-15.399	26.995	64.955	1.00 84.74	AAAA
ATOM	3722	N	PRO A		-15.188	29.044	65.890	1.00 83.13	AAAA
ATOM	3723	CD	PRO A		-15.246	30.070	66.946	1.00 82.48	AAAA
ATOM	3724	CA	PRO A		-15.217	29.684	64.574	1.00 81.50	AAAA
ATOM	3725	CB	PRO A		-15.154	31.181	64.910	1.00 82.13	AAAA
ATOM	3726	CG	PRO A		-14.542	31.216	66.290	1.00 83.03	AAAA
MOTA	3727	C	PRO A		-14.115	29.256	63.613	1.00 79.29	AAAA
ATOM ATOM	3728	0	PRO A		-13.672	28.105	63.616	1.00 77.71	AAAA
ATOM	3729 3730	N	GLU A		-13.684	30.208	62.792	1.00 77.71	AAAA
ATOM	3731	CA CB	GLU A		-12.661	29.975	61.786	1.00 75.83	AAAA
ATOM	3732	CG	GLU A		-12.764	31.037	60.683	1.00 77.35	AAAA
ATOM	3733	CD	GLU A		-14.001 -15.296	30.902	59.798	1.00 78.87	AAAA
ATOM	3734		GLU A			30.953	60.582	0.01 79.22	AAAA
MOTA	3735		GLU A		-15.549 -16.064	31.976	61.251	0.01 79.62	AAAA
ATOM	3736	C	GLU A		-11.229	29.968 29.915	60.528	0.01 79.63	AAAA
ATOM	3737	Ö	GLU A		-10.390	30.731	62.301 61.918	1.00 73.13	AAAA
ATOM	3738	N	GLY A		-10.350	28.945	63.169	1.00 74.00 1.00 69.33	AAAA
ATOM	3739	CA	GLY A		-9.617	28.754	63.691	1.00 63.89	AAAA AAAA
ATOM	3740	C	GLY A		-8.969	29.845	64.520	1.00 60.11	AAAA
MOTA	3741	0	GLY A		-9.644	30.668	65.145	1.00 60.11	AAAA
ATOM	3742	N	CYS A		<b>-7</b> .637	29.844	64.505	1.00 55.83	AAAA
MOTA	3743	CA	CYS A		-6.835	30.788	65.279	1.00 50.20	AAAA
ATOM	3744	C	CYS A	491	-5.456	31.020	64.652	1.00 46.10	AAAA
MOTA	3745	0	CYS A	491	-4.998	30.243	63.823	1.00 45.10	AAAA

ATOM	3746	CB	CYS A	491	-6.642	30.222	66.675	1.00 50.92	AAAA
ATOM	3747	SG	CYS A	491	-5.689	28.673	66.628	1.00 49.59	AAAA
ATOM	3748	N	TRP A		-4.781	32.083	65.066	1.00 41.77	AAAA
	-								AAAA
ATOM	3749	CA	TRP F		-3.464	32.369	64.530	1.00 38.99	
ATOM	3750	CB	TRP A		-3.298	33.863	64.292	1.00 36.70	AAAA
ATOM	3751	CG	TRP A	492	-4.307	34.422	63.360	1.00 36.76	AAAA
ATOM	3752	CD2	TRP A	492	-4.229	34.444	61.932	1.00 34.87	AAAA
ATOM	3753		TRP A		-5.373	35.122	61.462	1.00 34.02	AAAA
ATOM	3754		TRP A		-3.298	33.961	61.003	1.00 35.02	AAAA
MOTA	3755	CD1	TRP A	492	-5.470	35.056	63.690	1.00 35.06	AAAA
ATOM	3756	NE1	TRP A	492	-6.113	35.483	62.555	1.00 33.67	AAAA
ATOM	3757	c2,2	TRP A	492	-5.612	35.333	60.107	1.00 33.91	AAAA
ATOM	3758		TRP A		-3.531	34.170	59.660	1.00 35.63	aaaa
									AAAA
ATOM	3759		TRP A		-4.683	34.855	59.222	1.00 36.22	
ATOM	3760	С	TRP A	492	-2.408	31.887	65.501	1.00 39.17	AAAA
ATOM	3761	0	TRP A	492	-1.211	32.072	65.286	1.00 39.69	AAAA
ATOM	3762	N	GLY A	493	-2.862	31.269	66.581	1.00 40.06	AAAA
ATOM	3763	CA	GLY A		-1.939	30.767	67.576	1.00 42.62	AAAA
ATOM	3764	C	GLY A		-2.668	30.006	68.657	1.00 43.52	AAAA
ATOM	3765	0	GLY A		-3.878	29.825	68.581	1.00 44.18	AAAA
ATOM	3766	N	PRO A	494	-1.954	29.546	69.688	1.00 44.51	AAAA
ATOM	3767	CD	PRO A	494	-0.491	29.639	69.856	1.00 42.34	AAAA
ATOM	3768	CA	PRO A	494	-2.566	28.791	70.789	1.00 44.19	AAAA
ATOM	3769	CB	PRO A		-1.361	28.149	71.468	1.00 43.24	AAAA
									AAAA
ATOM	3770	CG	PRO A		-0.300	29.203	71.299	1.00 42.64	
ATOM	3771	С	PRO A	494	-3.371	29.653	71.752	1.00 43.98	AAAA
ATOM	3772	0	PRO A	494	-4.287	29.171	72.403	1.00 44.27	AAAA
ATOM	3773	N	GLU A	495	-3.023	30.933	71.823	1.00 44.64	AAAA
ATOM	3774	CA	GLU A		-3.673	31.882	72.725	1.00 45.02	AAAA
							72.735	1.00 42.24	AAAA
ATOM	3775	CB	GLU A		-2.900	33.212			
ATOM	3776	CG	GLU A		-1.655	33.244	73.608	1.00 42.51	AAAA
ATOM	3777	CD	GLU A	4 4 9 5	-0.852	34.525	73.430	1.00 44.08	AAAA
ATOM	3778	OE1	GLU A	4 4 9 5	-0.182	34.970	74.390	1.00 41.87	AAAA
MOTA	3779	OE2	GLU Z	495	-0.882	35.085	72.312	1.00 47.63	AAAA
ATOM	3780	C		4 4 9 5	-5.149	32.176	72.453	1.00 46.59	AAAA
									AAAA
ATOM	3781	0		4 4 9 5	-5.650	31.988	71.348	1.00 46.06	
ATOM	3782	N	PRO 7	4 496	-5.865	32.637	73.488	1.00 49.10	AAAA
MOTA	3783	CD	PRO A	496	-5.453	32.549	74.903	1.00 48.93	AAAA
ATOM	3784	CA	PRO A	496	-7.283	32.975	73.389	1.00 50.48	AAAA
MOTA	3785	СВ		496	-7.647	33.335	74.827	1.00 50.12	AAAA
	3786	CG		4 496	-6.773	32.414	75.615	1.00 49.73	AAAA
ATOM									
MOTA	3787	С		4 496	-7.485	34.142	72.433	1.00 51.94	AAAA
ATOM	3788	0	PRO 7	4 4 9 6	-8.411	34.134	71.622	1.00 54.25	AAAA
ATOM	3789	N	ARG Z	497	-6.614	35.144	72.542	1.00 52.50	AAAA
ATOM	3790	CA	ARG 7	497	6.669	36.334	71.691	1.00 53.38	AAAA
ATOM	3791	СВ	ARG Z		-5.891	37.500	72.313	1.00 56.15	AAAA
									AAAA
ATOM	3792	CG		4 4 9 7	-6.406	38.025	73.638	1.00 57.83	
ATOM	3793	CD	ARG 2	A 497	-6.353	36.979	74.735	1.00 61.36	AAAA
MOTA	3794	NE	ARG A	497	-5.142	36.160	74.709	1.00 63.37	AAAA
ATOM	3795	CZ	ARG Z	4 4 9 7	-4.773	35.353	75.703	1.00 66.12	AAAA
ATOM	3796		ARG A		-5.513		76.806	1.00 65.74	AAAA
ATOM	3797		ARG Z		-3.673	34.622	75.595	1.00 67.11	AAAA
ATOM	3798	C		A 497	-6.040	36.025	70.340	1.00 52.89	AAAA
MOTA	3799	0		4 4 9 7	-5.844	36.924	69.524	1.00 52.41	AAAA
ATOM	3800	N		498	-5.702		70.126	1.00 51.94	AAAA
ATOM	3801	CA	ASP A	498	-5.095	34.309	68.874	1.00 52.16	AAAA
ATOM	3802	CB	ASP Z	498	-4.115	33.156	69.133	1.00 47.03	AAAA
ATOM	3803	CG		A 498	-2.701	33.627	69.284	1.00 40.75	AAAA
ATOM	3804		ASP I		-1.859	32.845	69.765	1.00 36.52	AAAA
									AAAA
MOTA	3805		ASP I		-2.438	34.786	68.914	1.00 38.87	
ATOM	3806	С	ASP A	A 498	-6.177	33.818	67.937	1.00 53.93	AAAA
ATOM	3807	0	ASP 2	A 498	-5.932	33.545	66.766	1.00 54.12	AAAA
MOTA	3808	N	CYS	A 499	-7.381	33.713	68.470	1.00 57.04	AAAA
ATOM	3809		CYS		-8.504	33.211	67.712	1.00 61.67	AAAA
ATOM		C				34.184	66.772	1.00 62.09	AAAA
	3810			A 499	-9.175				
ATOM	3811	0		A 499	-9.389	35.345	67.105	1.00 63.39	AAAA
MOTA	3812	CB	CYS :	499	-9.499	32.598	68.689	1.00 65.33	AAAA
ATOM	3813	SG	CYS	A 499	-8.780	31.039	69.292	1.00 73.60	AAAA
ATOM	3814	N		A 500	-9.484	33.696	65.578	1.00 61.78	AAAA
MOTA	3815	CA		A 500	~10.138	34.504		1.00 62.09	AAAA
							63.251	1.00 63.03	AAAA
ATOM	3816	CB		A 500	-10.249	33.729			
ATOM	3817		VAL .		-10.957	34.574	62.214	1.00 64.20	AAAA
MOTA	3818	CG2	VAL .	A 500	-8.866	33.340	62.763	1.00 63.38	AAAA
ATOM	3819	С	VAL .	A 500	-11.540	34.884	65.041	1.00 62.11	AAAA
ATOM	3820		VAL		-12.195	34.047	65.701	1.00 61.39	AAAA
	-0-0	-11			~=.175	51.51			

ATOM	3821	OT2	VAL	Α	500	-11.970	36.014	64.727	1.00 62.41	AAAA
ATOM	3822	CB	ALA	В	1	2.356	84.880	26.319	1.00 90.90	BBBB
ATOM	3823	C	ALA		1	0.031	85.787	26.110	1.00 91.58	BBBB
ATOM	3824	0	ALA		1	-0.298	85.022	25.200	1.00 91.94	BBBB
ATOM ATOM	3825 3826	N CA	ALA ALA		1	0.707	84.414	28.099	1.00 91.42	BBBB
ATOM	3827	N	ALA		1 2	1.147 -0.553	85.414 86.965	27.087 26.321	1.00 91.47	BBBB
ATOM	3828	CA	ALA		2	-1.608	87.499	25.462	1.00 91.00 1.00 89.73	BBBB BBBB
ATOM	3829	CB	ALA		2	-2.836	87.854	26.290	1.00 90.47	BBBB
ATOM	3830	c	ALA		2	-0.998	88.753	24.838	1.00 88.30	BBBB
ATOM	3831	0	ALA		2	-0.641	89.695	25.547	1.00 89.08	BBBB
ATOM	3832	N	GLU	В	3	-0.884	88.772	23.515	1.00 85.94	BBBB
ATOM	3833	CA	GLU	В	3	-0.252	89.900	22.836	1.00 83.78	BBBB
MOTA	3834	CB	GLU		3	0.822	89.362	21.896	1.00 83.83	BBBB
ATOM	3835	CG	GLU		3	0.273	88.409	20.851	1.00 83.17	BBBB
ATOM	3836	CD	GLU		3	1.346	87.907	19.912	1.00 84.43	BBBB
ATOM ATOM	3837 3838		GLU GLU		3 3	2.226	87.144	20.370	1.00 84.00	BBBB
ATOM	3839	C	GLU		3	1.315 -1.137	88.284 90.874	18.718 22.055	1.00 84.38 1.00 81.60	BBBB
ATOM	3840	õ	GLU		3	-0.618	91.689	21.287	1.00 81.80	BBBB BBBB
ATOM	3841	N	LYS		4	-2.451	90.816	22.240	1.00 77.32	BBBB
ATOM	3842	CA	LYS		4	-3.318	91.712	21.489	1.00 72.24	BBBB
ATOM	3843	CB	LYS	В	4	-3.911	90.960	20.299	1.00 72.99	BBBB
MOTA	3844	CG	LYS	В	4	-2.862	90.578	19.251	1.00 73.87	BBBB
MOTA	3845	CD	LYS	В	4	-3.442	89.706	18.144	1.00 75.12	BBBB
MOTA	3846	CE	LYS		4	-3.982	88.392	18.697	1.00 76.54	BBBB
ATOM	3847	NZ	LYS		4	-4.525	87.499	17.636	1.00 77.09	BBBB
ATOM	3848	C	LYS		4	-4.416	92.372	22.306	1.00 68.72	BBBB
ATOM ATOM	3849 3850	O	LYS LYS		4	-5.056	91.741	23.138	1.00 69.23	BBBB
ATOM	3851	N CA	LYS		5 5	-4.620 -5.625	93.658 94.444	22.054 22.756	1.00 64.66 1.00 61.66	BBBB
ATOM	3852	CB	LYS		5	-5.469	95.922	22.736	1.00 61.66	BBBB
ATOM	3853	CG	LYS		5	-6.446	96.833	23.109	1.00 67.43	BBBB
ATOM	3854	CD	LYS		5	-6.038	98.293	22.999	1.00 70.43	BBBB
MOTA	3855	CE	LYS	В	5	-6.941	99.148	23.868	1.00 71.94	BBBB
MOTA	3856	NZ	LYS	В	5	-7.042	98.568	25.241	1.00 73.42	BBBB
MOTA	3857	С	LYS		5	-7.035	93.977	22.434	1.00 57.43	BBBB
ATOM	3858	0	LYS		5	-7.412	93.870	21.268	1.00 59.14	BBBB
ATOM	3859	N	VAL		6	-7.825	93.710	23.463	1.00 52.04	BBBB
ATOM ATOM	3860 3861	CA	VAL		6	-9.183	93.238	23.232	1.00 48.54	BBBB
ATOM	3862	CB CG1	VAL VAL		6 6	-9.541 -8.584	92.103	24.182	1.00 47.62	BBBB
ATOM	3863		VAL		6	-9.509	90.944 92.614	23.995 25.597	1.00 45.73 1.00 48.12	BBBB BBBB
ATOM	3864	C	VAL		6	-10.255	94.303	23.383	1.00 46.10	BBBB
MOTA	3865	0	VAL		-6	-9:968	95.448	23.716	1.00 46.24	BBBB
ATOM	3866	N	CYS	В	7	-11.493	93.907	23.105	1.00 43.45	BBBB
MOTA	3867	CA	CYS	В	7	-12.653	94.781	23.238	1.00 41.48	BBBB
ATOM	3868	С	CYS		7	-13.889	93.897	23.150	1.00 39.94	BBBB
ATOM	3869	0	CYS		7	-13.808	92.760	22.699	1.00 38.56	BBBB
MOTA	3870	CB	CYS		7	-12.657	95.898	22.185	1.00 41.32	BBBB
ATOM ATOM	3871 3872	SG N	CYS GLN		7 8	-12.948	95.421	20.459	1.00 43.73 1.00 40.09	BBBB
ATOM	3873	CA	GLN		8	-15.024 -16.246	94.413 93.628	23.598 23.654	1.00 40.09	BBBB BBBB
ATOM	3874	CB	GLN		8	-17.209	94.267	24.651	1.00 40.11	BBBB
ATOM	3875	CG	GLN		8	-16.693	94.270	26.056	1.00 42.88	BBBB
ATOM	3876	CD	GLN	В	8	-16.398	92.874	26.573	1.00 42.83	BBBB
ATOM	3877		GLN		8	-15.395	92.657	27.259	1.00 44.92	BBBB
ATOM	3878		GLN		8	-17.273	91.924	26.262	1.00 41.48	BBBB
ATOM	3879	C	GLN		8	-17.022	93.290	22.395	1.00 42.13	BBBB
MOTA	3880	0	GLN		8	-17.513	92.167	22.255	1.00 43.46	BBBB
atom atom	3881 3882	N CA	GLY GLY		9 9	~17.152 -17.940	94.242	21.484	1.00 41.65	BBBB
ATOM	3883	C	GLY		9	-17.340	93.963 94.263	20.303	1.00 42.09 1.00 40.98	BBBB BBBB
ATOM	3884	Õ	GLY		9	-19.746	94.475	21.803	1.00 40.38	BBBB
ATOM	3885	N	THR			-20.257	94.265	19.637	1.00 39.50	BBBB
ATOM	3886	CA	THR		10	-21.649	94.586	19.894	1.00 38.24	BBBB
ATOM	3887	CB	THR	В	10	-22.022	95.917	19.206	1.00 36.02	BBBB
ATOM	3888		THR			-21.821	95.804	17.789	1.00 33.39	BBBB
ATOM	3889	CG2				-21.150	97.038	19.745	1.00 34.56	BBBB
ATOM	3890	C	THR			-22.638	93.514	19.476	1.00 38.14	BBBB
MOTA	3891	0	THR			-22.284	92.540	18.827	1.00 38.54	BBBB
ATOM ATOM	3892 3893	N CA	SER SER			-23.889	93.714	19.863	1.00 40.30	BBBB BBB <b>B</b>
ATOM	3894	CB	SER			-24.953 -25.189	92.784 91.856	19.539 20.724	1.00 42.90 1.00 42.83	BBBB
ATOM	3895	OG	SER			-24.008	91.129	21.004	1.00 42.83	BBBB
				۔		-4.000	22.163	22.004	2.00 40.10	2220

ATOM	3896	С	SER	В	1.1	-26.223	93.555	19.202	1.00 43	.13	BBBB
ATOM	3897	0	SER		11	-27.323	93.172	19.605	1.00 42	.23	BBBB
ATOM	3898	N	ASN	В	12	-26.052	94.645	18.456	1.00 43	.57	BBBB
ATOM	3899	CA	ASN		12	-27.171	95.496	18.053	1.00 43	.71	BBBB
ATOM	3900	CB	ASN		12	-26.711	96.939	17.822	1.00 42	. 07	BBBB
ATOM	3901	CG	ASN		12	-25.968	97.526	19.001	1.00 40	.92	BBBB
ATOM	3902		ASN		12	-26.365	97.364	20.150	1.00 42		BBBB
ATOM	3903		ASN		12	-24.896	98.243	18.714	1.00 39		BBBB
ATOM	3904	C	ASN		12	-27.824	95.016	16.763	1.00 43		BBBB
	3905	0	ASN		12	-28.927	95.437	16.448	1.00 43		BBBB
ATOM						-27.139	94.144	16.025	1.00 44		BBBB
ATOM	3906	N	LYS		13		93.641	14.742	1.00 43		BBBB
ATOM	3907	CA	LYS		13	-27.631	92.695	14.742	1.00 43		BBBB
ATOM	3908	CB	LYS		13	-28.819			1.00 45		BBBB
ATOM	3909	CG	LYS		13	-28.427	91.391	15.613			BBBB
ATOM	3910	CD	LYS		13	-29.413	90.266	15.363	1.00 47		BBBB
MOTA	3911	CE	LYS		13	-30.803	90.593	15.880	1.00 50		
MOTA	3912	NZ	LYS		13	-31.803	89.517	15.568	1.00 51		BBBB
ATOM	3913	С	LYS		13	-28.009	94.806	13.822	1.00 43		BBBB
MOTA	3914	0	LYS	В	13	-27.208	95.723	13.642	1.00 43		BBBB
MOTA	3915	N	LEU	₿	14	-29.220	94.797	13.263	1.00 41		BBBB
ATOM	3916	CA	LEU	В	14	-29.633	95.864	12.341	1.00 41		BBBB
ATOM	3917	CB	LEU	В	14	-30.586	95.304	11.281	1.00 40	1.14	BBBB
MOTA	3918	CG	LEU	В	14	-29.957	94.207	10.417	1.00 40	38	BBBB
ATOM	3919	CD1	LEU	В	14	-30.970	93.663	9.413	1.00 38	.53	BBBB
ATOM	3920	CD2	LEU	В	14	-28.737	94.771	9.715	1.00 36	5.18	BBBB
ATOM	3921	С	LEU	В	14	-30.252	97.113	12.968	1.00 41	.82	BBBB
MOTA	3922	0	LEU	В	14	-30.853	97.929	12.269	1.00 39	9.90	BBBB
ATOM	3923	N	THR		15	-30.096	97.255	14.283	1.00 42	.58	BBBB
ATOM	3924	CA	THR	В	15	-30.610	98.399	15.023	1.00 41	03	BBBB
ATOM	3925	CB	THR		15	-30.754	98.051	16.507	1.00 41	85	BBBB
MOTA	3926		THR		15	-31.888	97.187	16.675	1.00 40	.77	BBBB
ATOM	3927		THR	-	15	-30.912	99.312	17.361	1.00 40	.86	BBBB
ATOM	3928	C	THR		15	-29.647	99.563	14.857	1.00 42	2.13	BBBB
ATOM	3929	ŏ	THR		15	-28.449	99.357	14.691	1.00 43	3.13	BBBB
ATOM	3930	N	GLN		16		100.783	14.870	1.00 42		BBBB
ATOM	3931	CA	GLN		16		101.993	14.720	1.00 41		BBBB
ATOM	3932	CB	GLN		16		102.861	13.571	1.00 43		BBBB
ATOM	3933	CG	GLN		16		104.114	13.277	1.00 46		BBBB
	3934	CD	GLN		16		104.973	12.145	1.00 47		BBBB
ATOM			GLN		16		104.496	11.024	1.00 47		BBBB
ATOM	3935						104.450	12.434	1.00 48		BBBB
ATOM	3936		GLN		16 16		100.232	16.038	1.00 40		BBBB
ATOM	3937	C	GLN		16		102.732	16.614	1.00 38		BBBB
MOTA	3938	0	GLN LEU		16 17		103.249	16.519	1.00 39		BBBB
MOTA	3939	N						17.792	1.00 37		BBBB
ATOM	3940	CA	LEU		17		103.968	18.547	1.00 36		BBBB
MOTA	3941	CB	LEU		17		103.680		1.00 36		BBBB
ATOM	3942	CG	LEU		17		102.201	18.730	1.00 33		BBBB
ATOM	3943		LEU	_	17		102.071	19.311			BBBB
ATOM	3944		LEU		17		101.530	19.618	1.00 35		
MOTA	3945	С	LEU		17		105.458	17.589			BBBB
ATOM	3946	0	LEU		17		106.191	17.498	1.00 39		BBBB
ATOM	3947	N	GLY		18		105.905	17.527	1.00 39		BBBB
MOTA	3948	CA	GLY		18		107.314	17.332	1.00 39		BBBB
ATOM	3949	С	GLY		18		107.794	15.927	1.00 41		BBBB
ATOM	3950	0	GLY		18		107.122	14.937	1.00 41		BBBB
ATOM	3951	N	THR		19		108.972	15.837	1.00 41		BBBB
ATOM	3952	CA	THR	В	19		109.542	14.545	1.00 42		BBBB
ATOM	3953	CB	THR	В	19		111.058	14.653	1.00 41		BBBB
ATOM	3954	OG1	THR	В	19	-27.291	111.341	15.264	1.00 43		BBBB
MOTA	3955	CG2	THR	В	19	-29.672	111.669	15.489	1.00 38	3.52	BBBB
MOTA	3956	С	THR	В	19		108.979	13.980	1.00 43	3.76	BBBB
ATOM	3957	0	THR	В	19	-26.528	108.640	14.734	1.00 45	5.17	BBBB
ATOM	3958	N	PHE	В	20	-27.351	108.896	12.655	1.00 43	3.80	BBBB
ATOM	3959	CA	PHE	В	20	-26.150	108.410	12.000	1.00 44	4.93	BBBB
ATOM	3960	CB	PHE		20	-26.119	108.894	10.552	1.00 44	4.54	BBBB
ATOM	3961	CG	PHE		20		108.232	9.674	1.00 48	8.17	BBBB
ATOM	3962		PHE		20	-27.421	108.753	8.420	1.00 49	9.08	BBBB
ATOM	3963		PHE		20	-27.776	107.067	10.084	1.00 50	0.85	BBBB
ATOM	3964		PHE		20		108.124	7.583	1.00 49		BBBB
ATOM	3965		PHE		20		106.426	9.248	1.00 50	0.80	BBBB
ATOM	3966	CZ	PHE		20		106.958	7.998	1.00 50		BBBB
ATOM	3967	C	PHE		20		108.946	12.736	1.00 46		BBBB
ATOM	3968	Ö	PHE		20		108.234	12.960	1.00 45		BBBB
ATOM	3969	N	GLU		21		110.216	13.114	1.00 47		BBBB
ATOM	3970	CA	GLU		21		110.888	13.819	1.00 48		BBBB
	22.0	1	J.100	_	- <b>-</b>			•			

ATOM	3971	CB	GLU B	21	-24	.316	112.344	14.052	1.00 50.22	BBBB
ATOM	3972	CG	GLU B				113.119	14.918	1.00 56.93	BBBB
ATOM	3973	CD	GLU B				113.142	14.357	1.00 60.75	BBBB
ATOM	3974		GLU B				113.743	13.279	1.00 63.46	BBBB
ATOM	3975		GLU B				112.553	14.997	1.00 63.81	BBBB
ATOM	3976	С	GLU B	21	-23	.587	110.195	15.151	1.00 46.79	BBBB
ATOM	3977	0	GLU B	21	-22	411	109.978	15.487	1.00 44.64	BBBB
ATOM	3978	N	ASP B				109.854	15.907	1.00 43.16	BBBB
ATOM	3979	CA	ASP B				109.186	17.183	1.00 42.09	BBBB
ATOM	3980	CB	ASP E				109.110	17.972	1.00 42.09	BBBB
ATOM	3981	CG	ASP E				110.474	18.417	1.00 41.65	BBBB
ATOM	3982	OD1	ASP E	22	-25	6.440	111.405	18.623	1.00 39.38	BBBB
ATOM	3983	OD2	ASP E	22	-27	.489	110.597	18.581	1.00 41.03	BBBB
ATOM	3984	С	ASP E	22	-23	3.920	107.774	16.942	1.00 41.75	BBBB
ATOM	3985	ō	ASP E				107.372	17.481	1.00 42.53	BBBB
ATOM	3986	N	HIS E				107.031	16.126	1.00 40.02	BBBB
ATOM	3987	CA	HIS E				105.651	15.767	1.00 35.97	BBBB
ATOM	3988	CB	HIS E	23	-25	5.155	105.253	14.539	1.00 32.17	BBBB
ATOM	3989	CG	HIS E	23	-25	5.082	103.800	14.204	1.00 29.25	BBBB
MOTA	3990	CD2	HIS E				103.134	13.291	1.00 26.48	BBBB
ATOM	3991		HIS E				102.850		1.00 27.89	
								14.830		BBBB
MOTA	3992		HIS E	_			101.662	14.313	1.00 25.95	BBBB
MOTA	3993	NE2	HIS E	23	-24	1.683	101.806	13.377	1.00 24.80	BBBB
MOTA	3994	С	HIS E	23	-22	2.865	105.493	15.470	1.00 35.48	BBBB
ATOM	3995	0	HIS E	23	-22	2.209	104.578	15.963	1.00 36.22	BBBB
ATOM	3996	N	PHE E				106.393	14.660	1.00 33.83	BBBB
ATOM	3997	CA	PHE E				106.343	14.317	1.00 33.95	BBBB
ATOM	3998	CB	PHE E				107.509	13.408	1.00 31.60	BBBB
MOTA	3999	CG	PHE E		-19	9.169	107.509	12.967	1.00 31.48	BBBB
ATOM	4000	CD1	PHE E	3 24	-18	3.724	106.585	12.040	1.00 32.42	BBBB
ATOM	4001	CD2	PHE E	3 24	-18	3.264	108.409	13.503	1.00 32.77	BBBB
MOTA	4002	CE1	PHE E	3 24	-17	7.395	106.564	11.660	1.00 32.76	BBBB
ATOM	4003		PHE E				108.395	13.129	1.00 30.70	BBBB
ATOM	4004	CZ								
							107.473	12.208	1.00 32.62	BBBB
ATOM	4005	С	PHE E				106.401	15.585	1.00 36.44	BBBB
MOTA	4006	0	PHE E	3 24			105.544	15.793	1.00 37.29	BBBB
MOTA	4007	N	LEU E	3 25	-20	0.312	107.406	16.433	1.00 38.09	BBBB
ATOM	4008	CA	LEU E	3 25	-15	9.545	107.553	17.666	1.00 38.16	BBBB
MOTA	4009	CB	LEU F				108.664	18.542	1.00 39.22	BBBB
ATOM	4010	CG	LEU E				110.117		1.00 33.22	
								18.061		BBBB
ATOM	4011		LEU E				111.002	19.259	1.00 42.04	BBBB
ATOM	4012	CD2	LEU E	3 25	-18	3.663	110.460	17.489	1.00 39.07	BBBB
ATOM	4013	С	LEU E	3 25	-1	9.477	106.262	18.476	1.00 38.99	BBBB
MOTA	4014	0	LEU E	3 25	-11	3.392	105.835	18.861	1.00 40.64	BBBB
ATOM	4015	N	SER E	3 26-	-21	1.622	105.642	18.744	1.00-37.60	BBBB
ATOM	4016	CA	SER I				104.393	19.483	1.00 35.65	BBBB
ATOM	4017		SER I							
		CB					103.775	19.505	1.00 33.47	BBBB
ATOM	4018	OG	SER I				104.368	20.502	1.00 38.66	BBBB
MOTA	4019	C	SER I		-1	9.661	103.446	18.787	1.00 36.61	BBBB
ATOM	4020	0	SER I	3 26	-1:	B.759	102.884	19.397	1.00 40.67	BBBB
MOTA	4021	N	LEU E	3 27	-1	9.858	103.270	17.495	1.00 35.83	BBBB
ATOM	4022	CA	LEU I				102.390	16.733	1.00 35.99	
ATOM	4023	CB	LEU I				102.514	15.249	1.00 37.08	
ATOM	4024	CG	LEU I				101.496	14.331	1.00 38.26	
MOTA	4025		LEU I				100.122	14.546	1.00 38.45	
MOTA	4026		LEU I				101.951	12.893	1.00 38.73	
ATOM	4027	С	LEU I	3 27	-1	7.552	102.780	16.965	1.00 35.66	BBBB
ATOM	4028	0	LEU I	3 27			101.962	17.338	1.00 31.82	BBBB
ATOM	4029	N	GLN I				104.052	16.737	1.00 36.80	
ATOM	4030	CA	GLN I				104.562	16.896		
									1.00 36.95	
ATOM	4031	CB	GLN I				106.022	16.490	1.00 34.36	
MOTA	4032	CG	GLN I				106.728	16.816	1.00 32.46	
MOTA	4033	CD	GLN I		-1	4.584	108.165	16.322	1.00 31.63	BBBB
MOTA	4034	OE1	GLN	3 28	-1	3.968	108.493	15.306	1.00 29.80	BBBB
ATOM	4035	NE2	GLN 1				109.026	17.031	1.00 27.20	
ATOM	4036	С	GLN I				104.414	18.306	1.00 37.66	
ATOM	4037	õ	GLN I							
							104.233	18.505	1.00 38.45	
ATOM	4038	N	ARG I				104.480	19.280	1.00 37.29	
ATOM	4039	CA	ARG				104.379	20.672	1.00 38.34	
ATOM	4040	CB	ARG I	B 29	-1	6.972	104.981	21.555	1.00 38.90	BBBB
MOTA	4041	CG	ARG	B 29	-1	6.580	105.142	23.014	1.00 43.54	BBBB
ATOM	4042	CD	ARG				105.977	23.766	1.00 46.43	
ATOM	4043	NE	ARG				105.558	23.464	1.00 52.49	
ATOM	4044	CZ	ARG							
							106.367	22.963	1.00 54.17	
ATOM	4045	NHT	ARG	B 29	-1	9.591	107.642	22.716	1.00 52.51	BBBB

ATOM	4046	NH2	ARG	В	29	-21.112	105.901	22.695	1.00 52.94	BBBB
MOTA	4047	С	ARG		29	-15.633		21.085	1.00 39.54	BBBB
MOTA	4048	0	ARG		29	-14.671		21.788	1.00 40.79	BBBB BBBB
MOTA	4049 4050	N CA	MET MET	В	30 30	-16.514 -16.414		20.649 20.986	1.00 39.69 1.00 39.12	BBBB
ATOM ATOM	4050	CB	MET		30	-17.738	99.957	20.645	1.00 37.04	BBBB
ATOM	4052	CG	MET		30	-18.961		21.480	1.00 38.69	BBBB
ATOM	4053			В	30	-19.041	99.845	23.234	1.00 41.58	BBBB
ATOM	4054	CE	MET	В	30	-20.471		23.926	1.00 23.68	BBBB
MOTA	4055	С		В	30	-15.239	99.930	20.332	1.00 41.38	BBBB
ATOM	4056	0		В	30	-14.800	98.898	20.845 19.237	1.00 43.31 1.00 41.41	BBBB BBBB
ATOM ATOM	4057 4058	N CA		B B	31 31	-14.696 -13.619	99.744	18.556	1.00 42.44	BBBB
ATOM	4059	CB		В	31	-14.099	99.283	17.182	1.00 39.20	BBBB
ATOM	4060	CG	PHE		31	-15.237	98.316	17.230	1.00 38.33	BBBB
ATOM	4061	CD1	PHE	В	31	-15.065	97.042	17.762	1.00 39.32	BBBB
ATOM	4062		PHE	В	31	-16.488	98.675	16.749	1.00 37.53	BBBB
MOTA	4063			В	31	-16.135	96.134	17.812	1.00 38.49	BBBB
ATOM	4064		PHE		31	-17.559 -17.384	97.784 96.511	16.793 17.323	1.00 37.20 1.00 37.73	BBBB BBBB
ATOM ATOM	4065 4066	CZ C	PHE PHE		31 31		100.472	18.370	1.00 46.06	BBBB
ATOM	4067	0		В	31	-11.331	99.862	17.932	1.00 48.39	BBBB
ATOM	4068	N	ASN		32		101.753	18.717	1.00 49.05	BBBB
ATOM	4069	CA	ASN	В	32	-11.083	102.598	18.538	1.00 53.10	BBBB
MOTA	4070	CB	ASN		32		103.703	19.591	1.00 58.64	BBBB
MOTA	4071	CG	ASN		32		104.902	19.135	1.00 65.70 1.00 64.39	BBBB BBBB
ATOM	4072 4073		ASN		32 32		104.991	17.962 20.040	1.00 84.39	BBBB
ATOM ATOM	4074	C	ASN ASN		32		101.983	18.443	1.00 54.12	BBBB
ATOM	4075	ŏ	ASN		32		102.100	17.404	1.00 55.49	BBBB
ATOM	4076	N	ASN		33	-9.206	101.342	19.501	1.00 52.60	BBBB
ATOM	4077	CA	ASN		33		100.775	19.435	1.00 51.90	BBBB
ATOM	4078	CB	ASN		33		101.348	20.562	1.00 52.79	BBBB
ATOM	4079	CG	ASN		33 33		102.827	20.402 19.471	1.00 53.95 1.00 54.94	BBBB BBBB
ATOM ATOM	4080 4081		ASN ASN		33		103.239	21.296	1.00 55.46	BBBB
ATOM	4082	C	ASN		33	-7.897	99.273	19.518	1.00 50.72	BBBB
ATOM	4083	ō	ASN		33	-6.905	98.629	19.843	1.00 51.51	BBBB
ATOM	4084	N	CYS	В	34	-9.049	98.720	19.184	1.00 48.69	BBBB
MOTA	4085	CA	CYS		34	-9.263	97.294	19.258	1.00 45.55	BBBB
ATOM	4086	С			34	-8.500	96.410 96.752	18.275 17.101	1.00 45.94 1.00 45.61	BBBB BBBB
ATOM ATOM	4087 4088	O CB	CYS		34 34	-8.314 -10.747	97.018	19.135	1.00 43.01	BBBB
ATOM	4089	SG	CYS		34	-11.101	95.338	19.650	1.00 40.13	BBBB
ATOM	4090	N	GLU		35	-8.074	95.252	18.774	1.00 45.35	BBBB
MOTA	4091	CA	GLU	В	35	-7.337	94.281	17.981	1.00 44.66	BBBB
MOTA	4092	CB	GLU		35	-5.940	94.087	18.544	1.00 47.83	BBBB
ATOM	4093	CG	GLU GLU		35 35	-5.117 -3.655	95.338 95.034	18.513 18.578	1.00 52.49 1.00 56.31	BBBB BBBB
ATOM ATOM	4094 4095		GLU		35	-3.216		19.610	1.00 58.59	BBBB
ATOM	4096		GLU		35	-2.950		17.588	1.00 59.17	BBBB
ATOM	4097	C	GLU		35	-8.057		17.973	1.00 43.07	BBBB
ATOM	4098	0	GLU		35	-8.018		16.977	1.00 42.40	BBBB
ATOM	4099	N	VAL		36	-8.700		19.091	1.00 40.14	BBBB
ATOM	4100	CA	VAL		36	-9.455 -8.748		19.180 20.072	1.00 39.73 1.00 39.54	BBBB BBBB
ATOM ATOM	4101 4102	CB CG1	VAL VAL		36 36	-9.582		20.072	1.00 36.59	BBBB
ATOM	4103		VAL		36	-7.405		19.494	1.00 38.89	BBBB
ATOM	4104	C	VAL		36	-10.852		19.729	1.00 38.88	BBBB
ATOM	4105	0	VAL	В	36	-11.031		20.872	1.00 37.66	BBBB
ATOM	4106	N	VAL		37	-11.849		18.896	1.00 38.66	BBBB
ATOM	4107	CA	VAL		37	-13.228		19.301 18.077	1.00 37.75 1.00 35.91	BBBB BBBB
ATOM	4108	CB CG1	VAL VAL		37 37	-14.123 -15.531			1.00 35.91	BBBB
ATOM ATOM	4109 4110		VAL		37	-13.545		17.317	1.00 32.75	BBBB
ATOM	4111	C	VAL		37	-13.694		19.946	1.00 37.33	BBBB
ATOM	4112	0	VAL		37	-13.754		19.291	1.00 39.25	BBBB
MOTA	4113	N	LEU		38	-14.012		21.230	1.00 37.26	BBBB
MOTA	4114	CA	LEU		38	-14.463		21.920	1.00 39.55	BBBB BBBB
ATOM	4115	CB	LEU		38	-14.506 -13.128		23.429 24.063	1.00 40.70 1.00 43.38	BBBB
MOTA MOTA	4116 4117	CG CD1	LEU LEU		38 38	-13.126 -13.298		25.562	1.00 43.30	BBBB
ATOM	4118		LEU		38	-12.191		23.717	1.00 39.35	BBBB
ATOM	4119	C	LEU		38	-15.829			1.00 39.47	BBBB
ATOM	4120	0	LEU	В	38	-16.181	87.557	21.506	1.00 40.38	- BBBB

ATOM	4121	N	GLY I	B 39	-16.601	89.707	20.951	1.00 38.39	BBBB
ATOM	4122	CA	GLY I	3 39	-17.928		20.453	1.00 35.96	BBBB
ATOM	4123	С	GLY I		-18.049	89.627	18.958	1.00 36.48	BBBB
ATOM	4124	0	GLY I	В 39	-17.191	89.205	18.173	1.00 34.99	BBBB
ATOM	4125	N	ASN I	B 40	-19.110	90.328	18.569	1.00 35.01	BBBB
ATOM	4126	CA	ASN I		-19.394			1.00 31.52	
							17.170		BBBB
MOTA	4127	CB	ASN I	В 40	-20.884	90.443	16.954	1.00 31.44	BBBB
ATOM	4128	CG	ASN I	B 40	-21.393	89.147	17.492	1.00 32.50	BBBB
ATOM	4129	OD1	ASN I		-20.853		17.168	1.00 32.91	
									BBBB
MOTA	4130	ND2	ASN I	В 40	-22.435	89.205	18.319	1.00 30.17	BBBB
ATOM	4131	С	ASN I	В 40	-18.942	91.957	16.673	1.00 30.43	BBBB
ATOM	4132	0	ASN I	3 40	-18.989		17.398	1.00 28.27	BBBB
ATOM	4133								
		N	LEU I		-18.507		15.420	1.00 30.26	BBBB
ATOM	4134	CA	LEU I	B <b>41</b>	-18.060	93.227	14.795	1.00 30.00	BBBB
ATOM	4135	CB	LEU I	B <b>41</b>	-16.808	92.968	13.966	1.00 28.81	BBBB
ATOM	4136	CG	LEU I		-16.369				
							13.190	1.00 31.13	BBBB
MOTA	4137		LEU I		-16.085	95.330	14.183	1.00 32.32	BBBB
ATOM	4138	CD2	LEU !	B 41	-15.146	93.907	12.343	1.00 30.82	BBBB
ATOM	4139	Ç	LEU I	B 41	-19.193	93.721	13.898	1.00 30.70	BBBB
ATOM	4140	Ō							
			LEU I		-19.394		12.804	1.00 30.84	BBBB
ATOM	4141	N	GLU I	B 42	-19.922	94.731	14.361	1.00 31.77	BBBB
ATOM	4142	CA	GLU 1	B 42	-21.063	95.266	13.618	1.00 30.97	BBBB
ATOM	4143	CB	GLU I		-22.310				
							14.500	1.00 29.36	BBBB
MOTA	4144	CG	GLU I		-22.673	93.779	14.893	1.00 27.91	BBBB
ATOM	4145	CD	GLU !	B 42	-23.838	93.700	15.865	1.00 30.15	BBBB
ATOM	4146	OF 1	GLU I	B 42	-24.600	92.700	15.803	1.00 30.47	BBBB
ATOM	4147		GLU I		-23.988	94.624	16.700	1.00 29.21	BBBB
ATOM	4148	С	GLU I	B 42	-20.871	. 96.674	13.093	1.00 31.68	BBBB
ATOM	4149	0	GLU 1	B 42	-21.077	97.640	13.813	1.00 34.15	BBBB
ATOM	4150	N	ILE I						
					-20.462		11.832	1.00 31.88	BBBB
MOTA	4151	CA		B 43	-20.261	. 98.076	11.189	1.00 31.70	BBBB
ATOM	4152	CB	ILE !	B 43	-19.049	98.034	10.269	1.00 30.88	BBBB
ATOM	4153	CG2	ILE	B 43	-18.858		9.592	1.00 26.49	
									BBBB
MOTA	4154		ILE !		-17.816	97.654	11.091	1.00 28.46	BBBB
ATOM	4155	CD1	ILE 1	B 43	-16.961	96.622	10.443	1.00 26.17	BBBB
ATOM	4156	С	ILE 1	B 43	-21.518	98.354	10.363	1.00 34.35	BBBB
ATOM	4157	ō		B 43					
					-21.696		9.291	1.00 34.05	BBBB
MOTA	4158	N	THR I		-22.396	99.214	10.881	1.00 34.36	BBBB
ATOM	4159	CA	THR I	B 44	-23.646	99.527	10.201	1.00 35.26	BBBB
ATOM	4160	CB	THR I	B 44	-24.827	98.883	10.905	1.00 33.22	BBBB
ATOM	4161		THR I						
					-24.979		12.187	1.00 28.44	BBBB
MOTA	4162	CG2	THR !	B 44	-24.617	97.396	11.055	1.00 32.34	BBBB
ATOM	4163	C	THR !	B 44	-23.969	101.012	10.108	1.00 36.70	BBBB
MOTA	4164	0	THR			101.816	10.921	1.00 38.26	
									BBBB
ATOM	4165	N	TYR I			101.352	9.112	1.00 35.22	BBBB
ATOM	4166	CA	TYR I	B 45	-25.239	102.722	8.868	1.00 33.77	BBBB
ATOM	4167	CB	TYR 1	B 45	-26.257	103.133	9.924	1.00 29.72	BBBB
ATOM	4168	CG	TYR						
						102.192	10.041	1.00 31.55	BBBB
ATOM	4169	CD1	TYR I		-27.420	101.167	10.971	1.00 31.63	BBBB
ATOM	4170	CE1	TYR I	B 45	-28.513	3 100.312	11.091	1.00 34.47	BBBB
ATOM	4171	CD2	TYR !	B 45	-28.540	102.337	9.225	1.00 33.89	BBBB
ATOM	4172		TYR						
						3 101.487	9.334	1.00 30.77	BBBB
MOTA	4173	CZ	TYR I	B 45	-29.621	100.481	10.266	1.00 32.23	BBBB
ATOM	4174	OH	TYR I	B 45	-30.708	99.646	10.386	1.00 31.30	BBBB
ATOM	4175	С	TYR I			103.803	8.797	1.00 33.02	BBBB
ATOM	4176								
		0	TYR			3 104.959	9.101	1.00 33.59	BBBB
ATOM	4177	N	VAL I	B 46	-22.959	0 103.444	8.419	1.00 32.03	BBBB
MOTA	4178	CA	VAL :	B 46	-21.906	104.437	8.337	1.00 33.71	BBBB
ATOM	4179	CB	VAL :			103.785	8.407	1.00 32.27	BBBB
ATOM									
	4180		VAL			104.842	8.432	1.00 28.84	BBBB
ATOM	4181	CG2	VAL	B 46	-20.440	102.921	9.645	1.00 31.29	BBBB
ATOM	4182	С	VAL	B 46	-22.106	105.146	7.017	1.00 36.89	BBBB
ATOM	4183	ō	VAL			3 103.140			
							5.977	1.00 37.60	BBBB
ATOM	4184	N	GLN			2 106.470	7.067	1.00 39.72	BBBB
ATOM	4185	CA	GLN :	B 47	-22.348	3 107.286	5.893	1.00 41.00	BBBB
ATOM	4186	CB	GLN :			3 108.514	6.308	1.00 40.83	BBBB
ATOM									
	4187	CG	GLN :			9 108.165	7.073	1.00 41.20	BBBB
ATOM	4188	CD	GLN :	B 47	-25.381	107.416	6.222	1.00 45.18	BBBB
ATOM	4189	OE J	GLN :	B 47		3 107.873	5.140	1.00 48.86	BBBB
ATOM	4190		GLN						
						106.260	6.703	1.00 46.06	BBBB
ATOM	4191	С	GLN			7 107.704	5.089	1.00 43.91	BBBB
ATOM	4192	0	GLN :	B 47	-19.990	107.578	5.528	1.00 45.16	BBBB
ATOM	4193	N	ARG			3 108.217		1.00 45.65	BBBB
							3.897		
MOTA	4194	CA	ARG			108.633	2.991	1.00 45.80	BBBB
MOTA	4195	CB	ARG :	B 48	-20.978	3 109.219	1.717	1.00 47.02	BBBB

ATOM	4196	CG	ARG B	48	-19.965 109.53	5 0.624	1.00 47.26	BBBB
ATOM	4197	CD	ARG B	48	-20.645 110.11		0.01 48.70	BBBB
ATOM	4198	NE	ARG B	48	-19.692 110.43		0.01 49.83	BBBB
ATOM	4199	CZ	ARG B	48	-20.026 110.96		0.01 50.50	BBBB
ATOM	4200		ARG B	48	-21.296 111.23		0.01 51.03	BBBB
ATOM	4200		ARG B	48			0.01 51.05	BBBB
					-19.091 111.22			
ATOM	4202	C	ARG B	48	-19.420 109.63		1.00 45.99	BBBB
ATOM	4203	0	ARG B	48	-19.839 <b>110.5</b> 5		1.00 46.84	BBBB
ATOM	4204	N	ASN B	49	-18.137 109.41		1.00 46.83	BBBB
MOTA	4205	CA	ASN B	49	-17.078 110.28	3 3.844	1.00 46.58	BBBB
ATOM	4206	CB	ASN B	49	-17.401 111.72	9 3.489	1.00 49.76	BBBB
MOTA	4207	CG	ASN B	49	-17.164 112.03	3 2.015	1.00 52.89	BBBB
ATOM	4208	OD1	ASN B	49	-17.777 112.94	7 1.453	1.00 54.45	BBBB
ATOM	4209	ND2	ASN B	49	-16.258 111.27	7 1.385	1.00 51.55	BBBB
ATOM	4210	С	ASN B	49	-16.720 110.16		1.00 45.75	BBBB
ATOM	4211	0	ASN B	49	-15.818 110.84		1.00 47.21	BBBB
MOTA	4212	N	TYR B	50	-17.412 109.30		1.00 43.58	BBBB
ATOM	4213	CA	TYR B	50	-17.062 109.10		1.00 43.15	BBBB
ATOM	4214	СВ	TYR B	50	-18.197 108.38		1.00 43.96	BBBB
ATOM	4215	CG	TYR B	50	-19.181 109.34		1.00 44.81	BBBB
				50	-20.045 110.10		1.00 44.51	BBBB
ATOM	4216		TYR B					
ATOM	4217		TYR B	50	-20.887 111.06		1.00 42.26	BBBB
ATOM	4218		TYR B	50	-19.188 109.55		1.00 43.79	BBBB
ATOM	4219	CE2	TYR B	50	-20.023 110.50		1.00 44.03	BBBB
ATOM	4220	CZ	TYR B	50	-20.868 111.25		1.00 42.93	BBBB
ATOM	4221	OH	TYR B	50	-21.682 112.20	0 10.517	1.00 41.71	BBBB
MOTA	4222	С	TYR B	50	-15.757 108.29	1 7.500	1.00 42.97	BBBB
ATOM	4223	0	TYR B	50	-15.590 107.32	9 6.763	1.00 44.98	BBBB
ATOM	4224	N	ASP B	51	-14.828 108.69	0 8.362	1.00 42.65	BBBB
ATOM	4225	CA	ASP B	51	-13.542 108.00	6 8.495	1.00 42.46	BBBB
MOTA	4226	CB	ASP B	51	-12.502 108.95	2 9.104	1.00 43.09	BBBB
ATOM	4227	CG	ASP B	51	-11.086 108.38	1 9.061	1.00 46.50	BBBB
ATOM	4228	OD1	ASP B	51	-10.829 107.47		1.00 46.26	BBBB
ATOM	4229		ASP B	51	-10.223 108.86		1.00 44.69	BBBB
ATOM	4230	C	ASP B	51	-13.659 106.74		1.00 42.84	BBBB
ATOM	4231	o	ASP B	51	-14.060 106.80		1.00 43.96	BBBB
			LEU B	52	-13.314 105.60		1.00 42.12	BBBB
MOTA	4232	N		52			1.00 42.12	BBBB
ATOM	4233	CA			-13.386 104.32			BBBB
ATOM	4234	CB	LEU B	52	-14.272 103.35		1.00 36.91	BBBB
MOTA	4235	CG	LEU B	52	-15.780 103.54		1.00 33.19	
ATOM	4236		LEU B	52	-16.408 102.43		1.00 30.46	BBBB
ATOM	4237		LEU B	52	-16.304 103.49		1.00 32.74	BBBB
ATOM	4238	С	LEU B	52	-11.998 103.72		1.00 42.49	BBBB
ATOM	4239	0	LEU B	52	-11.851 102.53		1.00 42.78	BBBB
MOTA	4240	N	SER B	53	-10.986 104.56		1.00 44.21	BBBB
ATOM	4241	CA	SER B	53	-9.599 104.12		1.00 45.78	BBBB
MOTA	4242	CB	SER B	53	-8.662 105.31		1.00 46.64	BBBB
ATOM	4243	OG	SER B	53	-8.648 106.10	1 10.405	1.00 51.81	BBBB
MOTA	4244	С	SER B	53	-9.234 103.36	3 10.643	1.00 45.91	BBBB
ATOM	4245	0	SER B	53	-8.269 102.60	3 10.653	1.00 48.01	BBBB
ATOM	4246	N	PHE B	54	-10.006 103.56	2 11.705	1.00 45.83	BBBB
ATOM	4247	CA	PHE B	54	-9.742 102.88	3 12.966	1.00 44.20	BBBB
ATOM	4248	CB	PHE B	54	~10.517 103.56	2 14.098	1.00 41.32	BBBB
MOTA	4249	CG	PHE B	54	-12.011 103.45	5 13.968	1.00 37.89	BBBB
ATOM	4250	CD1	PHE B	54	-12.661 102.24	1 14.186	1.00 36.47	BBBB
ATOM	4251		PHE B	54	-12.772 104.57		1.00 36.41	BBBB
ATOM	4252		PHE B	54	-14.044 102.14		1.00 34.47	BBBB
ATOM	4253		PHE B	54	-14.161 104.49		1.00 35.84	BBBB
ATOM	4254	CZ	PHE B	54	-14.799 103.26		1.00 37.14	BBBB
ATOM	4255	C	PHE B	54	-10.097 101.40		1.00 45.31	BBBB
ATOM	4256	ō	PHE B	54	-10.112 100.73		1.00 48.82	BBBB
					-10.402 100.88		1.00 45.41	BBBB
ATOM	4257	И	LEU B	55			1.00 43.41	
ATOM	4258	CA	LEU B	55	-10.749 99.48			BBBB
ATOM	4259	CB	LEU B	55	-11.943 99.28		1.00 40.96	BBBB
ATOM	4260	CG	LEU B	55	-13.287 99.74		1.00 38.09	BBBB
ATOM	4261		LEU B	55	-14.404 99.41		1.00 35.50	BBBB
ATOM	4262		LEU B	55	-13.541 99.07		1.00 35.49	BBBB
ATOM	4263	С	LEU B	55	-9.539 98.68		1.00 45.71	BBBB
MOTA	4264	0	LEU B	55	-9.544 97.45	4 11.196	1.00 46.98	BBBB
MOTA	4265	N	LYS B	56	-8.496 99.41	0 10.763	1.00 44.56	BBBB
MOTA	4266	CA	LYS B	56	-7.267 98.78	4 10.300	1.00 43.83	BBBB
ATOM	4267	CB	LYS B	56	-6.300 99.85	9.782	1.00 45.19	BBBB
MOTA	4268	CG	LYS B	56	-6.813 100.60		1.00 47.88	BBBB
MOTA	4269	CD	LYS B	56	-5.848 101.67	_	1.00 47.63	BBBB
ATOM	4270	CE	LYS B	56	-6.531 102.50		1.00 50.64	BBBB
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ATOM	4271	NZ	LYS B	56	-5.739	103.655	6.440	1.00 51.10	BBBB
MOTA	4272	C	LYS B	56	-6.590	97.975	11.409	1.00 43.65	BBBB
ATOM	4273	0	LYS B		-5.863	97.018	11.134	1.00 43.13	BBBB
ATOM ATOM	4274 4275	N CA	THR B	57 57	-6.838 -6.224	98.353	12.662	1.00 42.76	BBBB
ATOM	4276	CB	THR B	57	-6.194	97.662 98.545	13.794 15.054	1.00 42.17 1.00 42.54	BBBB
ATOM	4277	OG1	THR B	57	-7.532	98.879	15.034	1.00 42.34	BBBB BBBB
ATOM	4278	CG2	THR B	57	-5.408	99.805	14.798	1.00 41.04	BBBB
ATOM	4279	С	THR B		-6.874	96.340	14.177	1.00 41.12	BBBB
ATOM	4280	0	THR B	57	-6.262	95.547	14.881	1.00 42.45	BBBB
ATOM	4281	N	ILE B		-8.098	96.097	13.719	1.00 39.31	BBBB
ATOM	4282	CA	ILE B		-8.787	94.857	14.042	1.00 37.76	BBBB
ATOM ATOM	4283 4284	CB CG2	ILE B		-10.272	94.925	13.620	1.00 37.36	BBBB
ATOM	4285	CG1	ILE B		-10.922 -10.993	93.547 95.968	13.747 14.484	1.00 34.45 1.00 35.68	BBBB
ATOM	4286		ILE B		-12.502	95.926	14.419	1.00 33.88	BBBB BBBB
ATOM	4287	С	ILE B		-8.110	93.658	13.388	1.00 38.56	BBBB
ATOM	4288	0	ILE B		-7.849	93.658	12.192	1.00 38.92	BBBB
MOTA	4289	N	GLN B	59	-7.823	92.627	14.179	1.00 40.51	BBBB
ATOM	4290	CA	GLN B		-7.149	91.448	13.647	1.00 40.04	BBBB
ATOM	4291	CB	GLN B	59	-5.812	91.279	14.359	1.00 40.96	BBBB
ATOM ATOM	4292 4293	CG	GLN B		-4.851	92.409	14.044	1.00 42.93	BBBB
ATOM	4293	OE1	GLN B	59 59	-3.651 -3.155	92.433 91.378	14.962	1.00 46.66	BBBB
ATOM	4295	NE2			-3.159	93.639	15.390 15.262	1.00 47.12 1.00 45.18	BBBB BBBB
ATOM	4296	C	GLN B		-7.961	90.161	13.704	1.00 43.18	BBBB
ATOM	4297	0	GLN B		-7.810	89.285	12.849	1.00 37.07	BBBB
MOTA	4298	N	GLU B		-8.816	90.029	14.705	1.00 38.04	BBBB
ATOM	4299	CA	GLU B	60	-9.640	88.836	14.772	1.00 40.97	BBBB
ATOM	4300	CB	GLU B	60	-8.890	87.684	15.462	1.00 44.97	BBBB
ATOM	4301	CG	GLU B		-8.581	87.848	16.936	1.00 49.29	BBBB
ATOM	4302	CD	GLU B		-7.879	86.616	17.501	1.00 51.60	BBBB
ATOM	4303	OE1			-6.680	86.426	17.205	1.00 50.93	BBBB
ATOM ATOM	4304 4305	OE2 C	GLU B		-8.536	85.834	18.226	1.00 51.08	BBBB
ATOM	4305	0	GLU B		-10.965 -11.076	89.116 90.067	15.450 16.219	1.00 39.39 1.00 42.04	BBBB BBBB
ATOM	4307	N	VAL B		-11.967	88.296	15.150	1.00 42.04	BBBB
ATOM	4308	CA	VAL B		-13.300	88.475	15.707	1.00 36.21	BBBB
ATOM	4309	CB	VAL B	61	-14.246	89.096	14.646	1.00 35.48	BBBB
MOTA	4310	CG1	VAL B	61	-15.660	89.227	15.189	1.00 34.19	BBBB
ATOM	4311		VAL B		-13.712	90.445	14.216	1.00 34.29	BBBB
ATOM	4312	C	VAL B		-13.837	87.125	16.143	1.00 36.81	BBBB
ATOM	4313	0	VAL B		-13.972	86.214	15.332	1.00 38.75	BBBB
ATOM ATOM	4314	N	ALA B		-14.153	87.002	17.426	1.00 36.35	BBBB
ATOM	4315 4316	CA CB	ALA B		-14.647 -14.627	85.746 85.807	17.972 19.475	1.00 36.96 1.00 35.69	BBBB
ATOM	4317	C	ALA B		-16.042	85.367	17.494	1.00 33.69	BBBB BBBB
ATOM	4318	ō	ALA B		-16.296	84.192	17.193	1.00 41.85	BBBB
ATOM	4319	N	GLY B		-16.941	86.357	17.440	1.00 40.51	BBBB
MOTA	4320	CA	GLY B		-18.312		17.016	1.00 39.16	BBBB
MOTA	4321	С	GLY B		-18.486	86.266	15.519	1.00 39.36	BBBB
ATOM	4322	0	GLY B		-17.700	85.695	14.768	1.00 39.78	BBBB
ATOM	4323	N	TYR B		-19.509		15.079	1.00 37.88	BBBB
ATOM ATOM	4324 4325	CA CB	TYR B		-19.721		13.643	1.00 35.80	BBBB
ATOM	4326	CG	TYR B		-21.164 -22.235		13.242 13.934	1.00 33.30 1.00 31.41	BBBB BBBB
ATOM	4327		TYR B		-22.400		13.654	1.00 26.26	BBBB
MOTA	4328		TYR B		-23.371		14.311	1.00 26.22	BBBB
MOTA	4329		TYR B		-23.072		14.881	1.00 30.26	BBBB
MOTA	4330		TYR B		-24.037		15.532	1.00 27.97	BBBB
ATOM	4331	CZ	TYR B	64	-24.187		15.251	1.00 27.41	BBBB
ATOM	4332	OH	TYR B		-25.169		15.927	1.00 29.90	BBBB
ATOM	4333	С	TYR E		-19.377		13.217	1.00 36.12	BBBB
MOTA	4334	0	TYR E		-19.171		14.055	1.00 36.62	BBBB
MOTA	4335	N	VAL B		-19.307		11.904	1.00 35.99	BBBB
ATOM ATOM	4336 4337	CA CB	VAL E		-19.010 -17.758		11.304 10.405	1.00 34.85 1.00 33.30	BBBB
ATOM	4337		VAL E		-17.758 -17.523		9.722	1.00 33.30	BBBB BBBB
ATOM	4339		VAL E		-16.558		11.224	1.00 32.28	BBBB
MOTA	4340	C	VAL B		-20.205		10.444	1.00 35.28	BBBB
ATOM	4341	ō	VAL B		-20.472		9.414	1.00 35.08	BBBB
ATOM	4342	N	LEU B		-20.917		10.887	1.00 36.55	BBBB
MOTA	4343	CA	LEU E		-22.093		10.192	1.00 35.21	BBBB
ATOM	4344	CB	LEU B		-23.241		11.176	1.00 36.08	BBBB
ATOM	4345	CG	LEU B	66	-24.543	92.897	10.698	1.00 35.65	BBBB

ATOM	4346	CD1	LEU	В	66	-25.075	92.183	9.458	1.00 34.57	BBBB
ATOM	4347	CD2	LEU	В	66	-25.538	92.800	11.848	1.00 33.70	BBBB
ATOM	4348	С	LEU	В	66	-21.814	93.483	9.586	1.00 34.79	BBBB
ATOM	4349	0	LEU	В	66	-21.578	94.442	10.310	1.00 36.79	BBBB
ATOM	4350	N	ILE	В	67	-21.827	93.557	8.262	1.00 34.25	BBBB
ATOM	4351	CA	ILĖ	В	67	-21.601	94.806	7.539	1.00 33.94	BBBB
MOTA	4352	CB	ILE	В	67	-20.406	94.668	6.606	1.00 30.89	BBBB
MOTA	4353	CG2	ILE	В	67	-20.353	95.812	5.638	1.00 26.77	BBBB
ATOM	4354	CG1	ILE	В	67	-19.132	94.612	7.444	1.00 30.51	BBBB
ATOM	4355		ILE		67	-17.955	94.034	6.715	1.00 30.23	BBBB
ATOM	4356	С	ILE		67	-22.877	95.085	6.746	1.00 36.67	BBBB
ATOM	4357	0	ILE		67	-23.102	94.490	5.687	1.00 37.99	BBBB
ATOM	4358	N	ALA		68	-23.717	95.977	7.272	1.00 37.11	BBBB
ATOM	4359	CA	ALA		68	-24.988	96.285	6.634	1.00 38.62	BBBB BBBB
ATOM	4360	СВ	ALA		68	-26.074	95.427 97.74 <b>1</b>	7.237 6.655	1.00 34.98 1.00 41.81	BBBB
ATOM	4361	C	ALA ALA		68	-25.439 -25.190		7.616	1.00 43.44	BBBB
ATOM	4362	O N	LEU		68 69	-26.117	98.116	5.568	1.00 43.44	BBBB
ATOM ATOM	4363 4364	CA	LEU		69	-26.701	99.433	5.362	1.00 41.13	BBBB
ATOM	4365	CB	LEU		69	-27.864	99.641	6.351	1.00 40.99	BBBB
ATOM	4366	CG	LEU		69	-29.088		6.253	1.00 43.40	BBBB
ATOM	4367		LEU		69	-28.667		6.307	1.00 44.80	BBBB
ATOM	4368		LEU		69	-30.031		7.403	1.00 42.99	BBBB
ATOM	4369	C	LEU		69		100.569	5.467	1.00 42.12	BBBB
ATOM	4370	ō	LEU		69		101.589	6.077	1.00 45.10	BBBB
ATOM	4371	N	ASN		70		100.412	4.857	1.00 41.43	BBBB
ATOM	4372	CA	ASN		70		101.457	4.924	1.00 42.42	BBBB
MOTA	4373	CB	ASN		70		100.860	5.351	1.00 44.35	BBBB
ATOM	4374	CG	ASN	В	70	-22.249	100.205	6.706	1.00 45.54	BBBB
ATOM	4375	OD1	ASN	В	70	-22.214	100.886	7.732	1.00 47.62	BBBB
ATOM	4376	ND2	ASN	В	70	-22.375	98.876	6.721	1.00 44.33	BBBB
ATOM	4377	С	ASN	В	70		102.143	3.590	1.00 42.35	BBBB
ATOM	4378	0	ASN		70		101.489	2.568	1.00 42.28	BBBB
ATOM	4379	N	THR		71		103.467	3.597	1.00 43.79	BBBB
ATOM	4380	CA	THR		71		104.196	2.350	1.00 43.99	BBBB
ATOM	4381	CB	THR		71		105.433	2.275	1.00 42.39	BBBB
ATOM	4382		THR		71		106.437	3.181	1.00 44.98	BBBB BBBB
ATOM	4383		THR		71		105.061	2.639 2.221	1.00 33.43	BBBB
ATOM	4384 4385	C O	THR		71 71		104.050	1.142	1.00 46.05	BBBB
ATOM ATOM	4386	N	VAL		72		103.052	3.315	1.00 41.88	BBBB
ATOM	4387	CA	VAL		72		104.942	3.274	1.00 41.35	BBBB
ATOM	4388	CB	VAL		72		104.627	4.612	1.00 39.06	BBBB
ATOM	4389		VAL		72		103.143	4.858	1.00 35.73	BBBB
ATOM'	4390		VAL		72		105.195	4.589	1:00 37.77	BBBB
ATOM	4391	С	VAL		72	-18.962	104.123	2.135	1.00 44.61	BBBB
ATOM	4392	0	VAL	В	72	-19.454	103.036	1.827	1.00 45.80	BBBB
ATOM	4393	N	GLU	В	73	-17.915	104.619	1.497	1.00 46.60	BBBB
ATOM	4394	CA	GLU	В	73	-17.377	103.873	0.370	1.00 49.77	BBBB
MOTA	4395	CB	GLU		73		104.844	-0.714	1.00 53.30	BBBB
MOTA	4396	CG	GLU		73		105.377		1.00 59.10	BBBB
MOTA	4397	CD	GLU		73		106.454	-2.527	1.00 63.29	BBBB
ATOM	4398		GLU		73		106.230	-3.241	1.00 64.88	BBBB BBBB
ATOM	4399		GLU		73		107.518	-2.565	1.00 64.24 1.00 48.75	BBBB
MOTA	4400	C	GLU		73		102.844	0.639 -0.110	1.00 48.75	BBBB
ATOM	4401	0	GLU		73			1.694	1.00 45.11	BBBB
MOTA	4402	N	ARG		74 74		103.043 102.109	2.009	1.00 43.31	BBBB
MOTA	4403 4404	CA CB	ARG ARG		74		102.752	1.673	1.00 41.41	BBBB
MOTA MOTA	4405	CG	ARG		74		101.845	1.879	1.00 43.55	BBBB
ATOM	4406	CD	ARG		74		102.464	1.370	1.00 43.78	BBBB
ATOM	4407	NE	ARG		74		101.434	0.872	1.00 48.82	BBBB
ATOM	4408	CZ	ARG		74		101.034	1.493	1.00 51.30	BBBB
ATOM	4409		ARG		74		101.587	2.651	1.00 52.41	BBBB
ATOM	4410		ARG		74		100.065	0.965	1.00 51.69	BBBB
ATOM	4411	C	ARG		74		101.659	3.472	1.00 41.82	BBBB
ATOM	4412	ō	ARG		74		102.469	4.388	1.00 41.44	BBBB
ATOM	4413	N	ILE		75		100.356	3.679	1.00 39.86	BBBB
MOTA	4414	CA	ILE		75	-14.352	99.788	5.020	1.00 37.60	BBBB
MOTA	4415	CB	ILE		75	-15.553		5.240	1.00 34.27	BBBB
ATOM	4416	CG2	ILE	В	75	-15.501		6.641	1.00 34.36	BBBB
MOTA	4417		ILE		75	-16.831		5.044	1.00 30.98	BBBB
MOTA	4418		ILE		75	-18.081		5.393	1.00 31.35	BBBB
ATOM	4419	C	ILE		75	~13.049		5.120	1.00 37.82	BBBB BBBB
ATOM	4420	0	ILE	В	75	-13.016	97.802	4.855	1.00 37.97	DDDD

ATOM	4421	N	PRO	В	76	-11.961	99.678	5.515	1.00	36.88	BBBB
ATOM	4422	CD	PRO		76		101.022	6.110			
ATOM	4423	CA			76					35.83	BBBB
			PRO			-10.598		5.675		36.58	BBBB
ATOM	4424	CB	PRO		76	-9.798	100.430	5.996	1.00	34.96	BBBB
MOTA	4425	CG	PRO	В	76	-10.734	101.176	6.840	1.00	34.77	BBBB
MOTA	4426	С	PRO	В	76	-10.312	98.053	6.680		36.07	BBBB
ATOM	4427	0	PRO		76	-9.391		7.482		36.88	
ATOM	4428	N	LEU		77						BBBB
						-11.072		6.639		35.83	BBBB
MOTA	4429	CA	LEU		77	-10.800	95.840	7.533	1.00	35.98	BBBB
ATOM	4430	CB	LEU	В	77	-11.978	94.857	7.560	1.00	34.02	BBBB
ATOM	4431	CG	LEU	В	77	-13.244	95.319	8.281		33.37	BBBB
ATOM	4432	CD1	LEU		77	-14.294	94.235	8.276		27.46	
ATOM	4433		LEU		, . 77						BBBB
						-12.879		9.705		35.58	BBBB
MOTA	4434	С	LEU		77	-9.569		6.962		36.56	BBBB
MOTA	4435	0	LEU	В	77	-9.529	93.916	6.857	1.00	35.76	BBBB
ATOM	4436	N	GLU	В	78	-8.563	95.931	6.605	1.00	37.90	BBBB
ATOM	4437	CA	GLU	В	78	-7.345		5.996		41.62	BBBB
ATOM	4438	CB	GLU		78	-6.395					
								5.686		43.16	BBBB
MOTA	4439	CG	GLU		78	-7.011	97.684	4.859	1.00	45.69	BBBB
ATOM	4440	CD	GLU	В	78	-6.070	98.859	4.692	1.00	48.21	BBBB
ATOM	4441	OE1	GLU	В	78	-5.251	99.087	5.610		50.79	BBBB
MOTA	4442	OE2	GLU	B ·	78	-6.153		3.661		48.53	
ATOM	4443	C	GLU		78						BBBB
						-6.584	94.348	6.765		42.68	BBBB
ATOM	4444	0	GLU		78	-5.924	93.505	6.155	1.00	43.47	BBBB
MOTA	4445	N	ASN	В	79	-6.664	94.366	8.092	1.00	42.79	BBBB
ATOM	4446	CA	ASN	В	79	-5.944	93.372	8.877		42.33	BBBB
ATOM	4447	CB	ASN	B.	79	-5.083		9.908		43.85	
ATOM	4448	CG	ASN		79						BBBB
						-4.021	94.894	9.274		47.28	BBBB
ATOM	4449		ASN		79	-3.205	94.386	8.502	1.00	48.53	BBBB
ATOM	4450	ND2	ASN	В	7 <del>9</del>	-4.021	96.186	9.578	1.00	48.81	BBBB
ATOM	4451	С	ASN	В	79	-6.772	92.309	9.555	1.00	41.48	BBBB
ATOM	4452	0	ASN	B ·	79	-6.246	91.497	10.303		43.49	BBBB
ATOM	4453	N	LEU		80	-8.071					
ATOM							92.309	9.318		40.60	BBBB
	4454	CA	LEU		80	-8.896	91.283	9.922		40.18	BBBB
MOTA	4455	CB	LEU	В	80	-10.355	91.482	9.519	1.00	34.46	BBBB
ATOM	4456	CG	LEU	В	80	-11.238	90.307	9.898	1.00	32.95	BBBB
ATOM	4457	CD1	LEU	В	80	-11.237	90.135	11.410		30.76	BBBB
MOTA	4458		LEU		80	-12.635	90.538	9.368			
ATOM	4459	C	LEU							32.93	BBBB
					80	-8.354	89.959	9.375	1.00	40.73	BBBB
ATOM	4460	0	LEU		80	-8.270	89.782	8.171	1.00	42.10	BBBB
ATOM	4461	N	GLN	В	81	-7.970	89.040	10.254	1.00	43.95	BBBB
MOTA	4462	CA	GLN	В	81	-7.423	87.749	9.819	1.00	45.18	BBBB
ATOM	4463	CB	GLN	B	81	-6.147	87.426	10.574		47.44	
ATOM	4464	CG	GLN		81						BBBB
ATOM						-4.945	88.107	10.050		52.25	BBBB
	4465	CD.	GLN.		81	-3.750	87.231	10.205	~1.700	55.11	BBBB
ATOM	4466	OE1	GLN	В	81	-3.421	86.813	11.320	1.00	55.41	BBBB
ATOM	4467	NE2	GLN	В	81	-3.086	86.925	9.084	1.00	55.66	BBBB
MOTA	4468	С	GLN	В	81	-8.328	86.547	9.958		43.31	BBBB
ATOM	4469	0	GLN		81	-8.316		9.116			
ATOM	4470	N	ILE			-9.088					BBBB
					82		86.511	11.040		42.06	BBBB
ATOM	4471	CA	ILE		82	-9.978	85.386	11.267	1.00	41.80	BBBB
MOTA	4472	CB	ILE	В	82	-9.289	84.300	12.156	1.00	42.30	BBBB
ATOM	4473	CG2	ILE	В	82	-8.603	84.949	13.370	1.00	39.56	BBBB
MOTA	4474	CG1	ILE	В	82	-10.322	83.268	12.599		41.21	BBBB
ATOM	4475		ILE		82	-9.784	82.255				
ATOM	4476	C	ILE					13.542		46.10	BBBB
					82	-11.278	85.805	11.931		40.36	BBBB
ATOM	4477	0	ILE		82	-11.315	86.756	12.708	1.00	39.04	BBBB
ATOM	4478	И	ILE	В	83	-12.343	85.089	11.604	1.00	40.39	BBBB
MOTA	4479	CA	ILE	В	83	-13.652	85.335	12.190		41.65	BBBB
ATOM	4480	CB	ILE	R	83	-14.706	85.683	11.112			
ATOM	4481		ILE							39.57	BBBB
					83	-16.048	85.911	11.763		38.32	BBBB
ATOM	4482		ILE		83	-14.269		10.317	1.00	37.12	BBBB
ATOM	4483		ILE	В	83	-15.231	87.291	9.231	1.00	33.55	BBBB
ATOM	4484	С	ILE	В	83	-13.988	83.979	12.799		43.46	BBBB
ATOM	4485	0	ILE		83	-14.407	83.066	12.089		46.29	
ATOM	4486	N	ARG		84						BBBB
ATOM						-13.797	83.831	14.102		43.41	BBBB
	4487	CA	ARG		84	-14.055	82.536	14.714		45.55	BBBB
ATOM	4488	CB	ARG	₿	84	-13.689	82.567	16.198	1.00	43.48	BBBB
ATOM	4489	CG	ARG	В	84	-12.173	82.654	16.381		40.96	BBBB
ATOM	4490	CD	ARG		84	-11.722	82.792	17.823		38.59	BBBB
ATOM	4491	NE	ARG		84	-10.351	83.296				
ATOM	4492							17.849		38.64	BBBB
		CZ	ARG		84	-9.272	82.574	17.552		37.21	BBBB
		NILLIZ	ARG	B :	84	-9.385	81.296	17.222	1.00	36.34	BBBB
ATOM	4493									50.54	0000
ATOM	4493		ARG		84	-8.080	83.148				
				В	84 84			17.530 14.498	1.00	35.51 47.14	BBBB BBBB

ATOM	4496	0	ARG	В	84	-15.613	80.808	14.234	1.00 49.19	BBBB
ATOM	4497	N	GLY	В	85	-16.463	82.843	14.587	1.00 48.60	BBBB
ATOM	4498	CA	GLY	В	85	-17.815	82.374	14.374	1.00 48.64	BBBB
ATOM	4499	С	GLY	В	85	-18.389	81.697	15.595	1.00 50.67	BBBB
ATOM	4500	0	GLY	В	85	-19.225	80.798	15.480	1.00 48.65	BBBB
ATOM	4501	N	ASN	В	86	-17.942	82.141	16.769	1.00 53.10	BBBB
ATOM	4502	CA	ASN	В	86	-18.402	81.589	18.042	1.00 54.54	BBBB
ATOM	4503	СВ	ASN		86	-17.627	82.219	19.195	1.00 54.61	BBBB
ATOM	4504	CG	ASN		86	-16.249	81.608	19.372	1.00 56.34	BBBB
ATOM	4505		ASN		86	-15.633	81.136	18.413	1.00 56.95	BBBB
ATOM	4506		ASN		86	-15.752	81.625	20.602	1.00 57.43	BBBB
ATOM	4507	С	ASN		86	-19.890	81.806	18.241	1.00 55.92	BBBB
ATOM	4508	ō	ASN		86	-20.531	81.078	18.988	1.00 57.13	BBBB
ATOM	4509	N		В	87	-20.435	82.820	17.582	1.00 57.87	BBBB
ATOM	4510	CA		В	87	-21.860	83.111	17.668	1.00 60.00	BBBB
ATOM	4511	CB		В	87	-22.123	84.244	18.669	1.00 62.33	BBBB
ATOM	4512	CG		В	87	-21.395	84.059	20.012	1.00 66.91	BBBB
ATOM	4513	SD		В	87	-22.417	84.113	21.518	1.00 72.34	BBBB
ATOM	4514	CE		В	87	-23.030	82.377	21.611	1.00 67.27	BBBB
ATOM	4515	C	MET	В	87	-22.239	83.517	16.256	1.00 59.89	BBBB
	4516	0	MET		87			15.578	1.00 59.63	BBBB
ATOM						-21.458	84.180			
ATOM	4517	N	TYR		88	-23.417	83.099	15.801	1.00 60.95	BBBB
ATOM	4518	CA	TYR		88	-23.869	83.412	14.440	1.00 61.45	BBBB
ATOM	4519	CB	TYR		88	-24.503	82.180	13.789	1.00 61.90	BBBB
ATOM	4520	CG	TYR		88	-23.583	81.006	13.532	1.00 61.81	BBBB
ATOM	4521		TYR		88	-24.109	79.741	13.253	1.00 60.71	BBBB
ATOM	4522		TYR		88	-23.279	78.652	13.016	1.00 60.41	BBBB
ATOM	4523		TYR		88	-22.199	81.151	13.565	1.00 61.50	BBBB
ATOM	4524		TYR		88	-21.357	80.064	13.330	1.00 60.35	BBBB
ATOM	4525	CZ	TYR		88	-21.903	78.818	13.056	1.00 60.28	BBBB
ATOM	4526	OH	TYR		88	-21.073	77.743	12.827	1.00 58.07	BBBB
MOTA	4527	С	TYR		88	-24.888	84.545	14.329	1.00 61.70	BBBB
ATOM	4528	0	TYR		88	-25.517	84.957	15.306	1.00 60.43	BBBB
ATOM	4529	N	TYR		89	-25.039	85.031	13.105	1.00 62.59	BBBB
ATOM	4530	CA	TYR	В	89	-26.001	86.072	12.778	1.00 63.34	BBBB
MOTA	4531	CB	TYR	В	89	-25.330	87.197	11.992	1.00.62.11	BBBB
MOTA	4532	CG	TYR	В	89	-26.315	88.183	11.410	1.00 61.42	BBBB
MOTA	4533	CD1	TYR	В	89	-26.983	89.097	12.224	1.00 60.04	BBBB
ATOM	4534	CE1	TYR	В	89	-27.929	89.964	11.703	1.00 59.26	BBBB
ATOM	4535	CD2	TYR	В	89	-26.619	88.169	10.049	1.00 61.65	BBBB
ATOM	4536	CE2	TYR	В	89	-27.564	89.037	9.517	1.00 60.54	BBBB
ATOM	4537	CZ	TYR	В	89	-28.215	89.926	10.350	1.00 60.25	BBBB
ATOM	4538	ОН	TYR	В	89	-29.164	90.765	9.826	1.00 62.99	BBBB
ATOM	4539	С	TYR	В	89	-27.021	85.366	11.890	1.00 64.25	BBBB
MOTA	4540	Ο.	TYR	В	89	-26.649	84.768	10.882	1.00 64.10	BBBB
ATOM	4541	N	GLU	В	90	-28.294	85.422	12.267	1.00 65.76	BBBB
MOTA	4542	CA	GLU	В	90	-29.346	84.760	11.497	1.00 67.85	BBBB
MOTA	4543	CB	GLU	В	90	-29.301	85.200	10.032	1.00 69.69	BBBB
MOTA	4544	CG	GLU	В	90	-29.597	86.661	9.804	1.00 71.76	BBBB
MOTA	4545	CD	GLU		90	-30.963		10.309	1.00 74.36	BBBB
MOTA	4546		GLU		90	-31.173	87.036	11.545	1.00 74.39	BBBB
ATOM	4547		GLU		90	-31.826	87.406	9.467	1.00 75.93	BBBB
ATOM	4548	С	GLU		90	-29.207	83.241	11.562	1.00 68.00	BBBB
ATOM	4549	0	GLU		90	-29.669	82.528	10.670	1.00 68.57	BBBB
ATOM	4550	N	ASN		91	-28.556	82.762	12.618	1.00 68.13	BBBB
ATOM	4551	CA	ASN		91	-28.337	81.333	12.848	1.00 67.95	BBBB
ATOM	4552	CB	ASN		91	-29.669	80.575	12.856	1.00 69.00	BBBB
ATOM	4553	CG	ASN		91	-30.695	81.207	13.765	1.00 71.88	BBBB
ATOM	4554		ASN		91	-31.211	82.284	13.472	1.00 75.06	BBBB
ATOM	4555		ASN		91	-31.000	80.543	14.880	1.00 73.03	BBBB
ATOM	4556	C	ASN		91	-27.407	80.626	11.864	1.00 66.56	
MOTA	4557 4558	O N	ASN		91	-27.245	79.415 81.350	11.947 10.946	1.00 65.89 1.00 65.76	
ATOM		N	SER		92	-26.777				BBBB
MOTA	4559	CA	SER		92	-25.927	80.658	9.984	1.00 64.21	
ATOM	4560 4561	CB	SER		92	-26.720	80.400	8.699	1.00 65.15	
MOTA	4561	OG C	SER		92	-28.057	80.035	8.989	1.00 67.88	
MOTA	4562	C	SER		92	-24.609	81.302	9.588	1.00 62.16	
MOTA	4563	0	SER		92	-23.638	80.596	9.309	1.00 62.51	_
MOTA	4564	N	TYR		93	-24.562	82.629	9.565	1.00 59.13	
MOTA	4565	CA	TYR		93	-23.357	83.308	9.099	1.00 55.10	
ATOM	4566	CB	TYR		93	-23.747	84.390	8.095	1.00 54.89	
MOTA	4567	CG	TYR		93	-24.796	83.909	7.136	1.00 55.78	_
ATOM	4568		TYR		93	-26.149	84.059	7.425	1.00 55.09	_
ATOM	4569		TYR		93	-27.122	83.546	6.580	1.00 57.00	
MOTA	4570	CD2	TYR	В	93	-24.438	83.233	5.969	1.00 56.75	BBBB

ATOM	4571	CE2	TYR	В	93	-25.402	82.714	5.117	1.00	57.26	BBBB
ATOM	4572	CZ	TYR	В	93	-26.743		5.428		57.82	BBBB
ATOM	4573	OH	TYR		93	-27.705					
ATOM								4.594		60.01	BBBB
	4574	С	TYR		93	-22.409		10.097	1.00	51.04	BBBB
ATOM	4575	0	TYR		93	-22.812	84.461	11.113	1.00	52.06	BBBB
MOTA	4576	N	ALA	В	94	-21.131	83.788	9.784	1.00	46.53	BBBB
ATOM	4577	CA	ALA	В	94	-20.104		10.620		44.08	BBBB
ATOM	4578	СВ	ALA		94	-18.870					
ATOM								10.639		44.09	BBBB
	4579	С	ALA		94	-19.789		9.959	1.00	41.92	BBBB
ATOM	4580	0	ALA	В	94	-19.311	86.628	10.606	1.00	41.53	BBBB
ATOM	4581	N	LEU	В	95	-20.069	85.791	8.660	1.00	39.21	BBBB
ATOM	4582	CA	LEU	В	95	-19.843		7.887		37.76	BBBB
ATOM	4583	CB	LEU		95						
						-18.631		6.979		35.49	BBBB
ATOM	4584	CG	LEU		95	-18.415	88.070	6.094	1.00	33.63	BBBB
ATOM	4585	CD1	LEU	В	95	-17.960	89.215	6.962	1.00	32.01	BBBB
ATOM	4586	CD2	LEU	В	95	-17.405	87.759	5.008		32.10	BEBB
ATOM	4587	С	LEU	В	95	-21.048		7.017		37.37	
ATOM	4588	0	LEU								BBBB
					95	-21.444		6.152		37.51	BBBB
ATOM	4589	И	ALA		96	-21.617	88.554	7.235	1.00	36.61	BBBB
ATOM	4590	CA	ALA	В	96	-22.766	89.006	6.450	1.00	36.07	BBBB
ATOM	4591	CB	ALA	В	96	-24.054	88.870	7.252		35.49	BBBB
ATOM	4592	С	ALA		96	-22.627		5.982		36.77	
ATOM											BBBB
	4593	0	ALA		96	-22.650		6.790	1.00	36.64	BBBB
ATOM	4594	И	VAL		97	-22.473	90.624	4.675	1.00	37.08	BBBB
ATOM	4595	CA	VAL	В	97	-22.382	91.954	4.080	1.00	36.61	BBBB
ATOM	4596	CB	VAL	В	97	-21.276		3.045		33.72	BBBB
ATOM	4597	CG1	VAL		97	-21.214				34.52	
ATOM	4598							2.396			BBBB
			VAL		97	-19.964		3.708	1.00	30.28	BBBB .
ATOM	4599	С	VAL		97	-23.750		3.414	1.00	40.04	BBBB
ATOM	4600	0	VAL	В	97	-24.046	91.640	2.348	1.00	40.99	BBBB
MOTA	4601	N	LEU	В	98	-24.577	93.041	4.037		40.18	BBBB
ATOM	4602	CA	LEU		98	-25.929					
								3.533		41.20	BBBB
ATOM	4603	CB	PEA		98	-26.925		4.479	1.00	41.33	BBBB
ATOM	4604	CG	LEU	В	98	-26.601	91.186	4.875	1.00	42.90	BBBB
ATOM	4605	CD1	LEU	В	98	-27.601	90.721	5.932	1.00	41.80	BBBB
ATOM	4606	CD2	LEU	B	98	-26.624		3.644		40.29	
ATOM	4607	C	LEU		98						BBBB
						-26.444		3.266		42.77	BBBB
MOTA	4608	0	LEU		98	-26.367		4.126	1.00	42.58	BBBB
ATOM	4609	N	SER	В	99	-27.013	94.860	2.072	1.00	44.07	BBBB
ATOM	4610	CA	SER	В	99	-27.636	96.115	1.634	1.00	43.49	BBBB
ATOM	4611	CB	SER	В	99	-29.022		2.281		42.90	BBBB
MOTA	4612	OG	SER		99	-29.770					
								2.217		45.09	BBBB
ATOM	4613	С	SER		99	-26.829		1.963	1.00	43.69	BBBB
ATOM	4614	0	SER		99	-27.286	98.191	2.702	1.00	45.84	BBBB
MOTA	4615	N	ASN	B-	100	-25.639	97.445	1.403	1.700	45.90	BBBB
ATOM	4616	CA	ASN		100	-24.801		1.687		48.44	BBBB
ATOM	4617	CB	ASN	_	100	-23.388					
								2.016		49.23	BBBB
ATOM	4618	CG	ASN			-23.381		3.205	1.00	48.22	BBBB
ATOM	4619	ODI	ASN	В	100	-23.935	97.460	4.251	1.00	49.17	BBBB
ATOM	4620	ND2	ASN	В	100	-22.774	95.979	3.043	1.00	46.97	BBBB
ATOM	4621	С	ASN	В	100	-24.801		0.558		51.52	BBBB
MOTA	4622	o	ASN			-23.842					
ATOM	4623	N						-0.212		51.65	BBBB
			TYR				100.353	0.473		55.58	BBBB
ATOM	4624	CA	TYR				101.382	-0.551	1.00	60.68	BBBB
MOTA	4625	CB	TYR	В	101	-26.329	100.736	-1.907	1.00	58.10	BBBB
ATOM	4626	CG	TYR	В	101		100.050	-1.973	1.00	56 83	BBBB
ATOM	4627		TYR				100.690				
MOTA								-2.530	1.00		BBBB
	4628		TYR				100.082	-2.536	1.00		BBBB
MOTA	4629	CD2	TYR	В	101	-27.847	98.784	-1.427	1.00	55.12	BBBB
ATOM	4630	CE2	TYR	В	101	-29.090	98.170	-1.426	1.00	53.97	BBBB
MOTA	4631	CZ	TYR			-30.171		-1.981	1.00		BBBB
ATOM	4632	OH	TYR			-31.406					
								-1.966	1.00		BBBB
ATOM	4633	C	TYR				102.305	-0.204	1.00		BBBB
ATOM	4634	0	TYR				101.886	0.438	1.00	65.31	BBBB
ATOM	4635	N	ASP	В	102	-27.134	103.557	-0.640	1.00	68.49	BBBB
ATOM		CA	ASP				104.555	-0.393	1.00		BBBB
	4636						105.968		1.00		BBBB
MOTA			ACD	P			103.908	-0.565	1.00		KKKK
MOTA	4637	CB	ASP								
MOTA	4637 4638	CB CG	ASP	В	102	-26.724	106.098	-1.803	1.00	73.86	BBBB
ATOM ATOM	4637 4638 4639	CB CG OD1	ASP ASP	B B	102 102	-26.724 -27.123	106.098 105.573			73.86	
MOTA	4637 4638	CB CG OD1	ASP	B B	102 102	-26.724 -27.123	106.098 105.573	-1.803 -2.865	1.00	73.86 74.76	BBBB BBBB
ATOM ATOM ATOM	4637 4638 4639	CB CG OD1 OD2	ASP ASP ASP	B B B	102 102 102	-26.724 -27.123 -25.643	106.098 105.573 106.727	-1.803 -2.865 -1.719	1.00 1.00 1.00	73.86 74.76 72.76	BBBB BBBB BBBB
ATOM ATOM ATOM ATOM	4637 4638 4639 4640 4641	CB CG OD1 OD2 C	ASP ASP ASP ASP	В В В	102 102 102 102	-26.724 -27.123 -25.643 -29.341	106.098 105.573 106.727 104.353	-1.803 -2.865 -1.719 -1.347	1.00 1.00 1.00 1.00	73.86 74.76 72.76 75.37	BBBB BBBB BBBB BBBB
ATOM ATOM ATOM ATOM ATOM	4637 4638 4639 4640 4641 4642	CB CG OD1 OD2 C	ASP ASP ASP ASP ASP	B B B B	102 102 102 102 102	-26.724 -27.123 -25.643 -29.341 -29.906	106.098 105.573 106.727 104.353 103.258	-1.803 -2.865 -1.719 -1.347 -1.425	1.00 1.00 1.00 1.00	73.86 74.76 72.76 75.37 76.35	BBBB BBBB BBBB BBBB BBBB
ATOM ATOM ATOM ATOM ATOM ATOM	4637 4638 4639 4640 4641 4642 4643	CB CG OD1 OD2 C O	ASP ASP ASP ASP ASP ALA	B B B B B B	102 102 102 102 102 103	-26.724 -27.123 -25.643 -29.341 -29.906 -29.695	106.098 105.573 106.727 104.353 103.258 105.411	-1.803 -2.865 -1.719 -1.347	1.00 1.00 1.00 1.00 1.00	73.86 74.76 72.76 75.37 76.35 77.78	BBBB BBBB BBBB BBBB
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4637 4638 4639 4640 4641 4642	CB CG OD1 OD2 C	ASP ASP ASP ASP ASP	B B B B B B	102 102 102 102 102 103	-26.724 -27.123 -25.643 -29.341 -29.906 -29.695	106.098 105.573 106.727 104.353 103.258	-1.803 -2.865 -1.719 -1.347 -1.425	1.00 1.00 1.00 1.00	73.86 74.76 72.76 75.37 76.35 77.78	BBBB BBBB BBBB BBBB BBBB
ATOM ATOM ATOM ATOM ATOM ATOM	4637 4638 4639 4640 4641 4642 4643	CB CG OD1 OD2 C O	ASP ASP ASP ASP ASP ALA	8 8 8 8 8 8 8 <b>8</b>	102 102 102 102 102 103	-26.724 -27.123 -25.643 -29.341 -29.906 -29.695 -30.804	106.098 105.573 106.727 104.353 103.258 105.411	-1.803 -2.865 -1.719 -1.347 -1.425 -2.075	1.00 1.00 1.00 1.00 1.00	73.86 74.76 72.76 75.37 76.35 77.78 79.29	BBBB BBBB BBBB BBBB BBBB BBBB

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ATOM	4646	С	ALA	В	103	-30.333		-4.447	1.00 80.41	BBBB
ATOM	4647	0	ALA			-30.642		-5.011	1.00 81.20	BBBB BBBB
ATOM	4648	N	ASN ASN		104 104	-29.581 -29.065		-5.013 -6.380	1.00 80.61 1.00 81.29	BBBB
ATOM ATOM	4649 4650	CA CB	ASN		104	-28.580		-6.862	1.00 82.46	BBBB
ATOM	4651	CG	ASN		104	-27.643		-5.871	1.00 82.49	BBBB
ATOM	4652		ASN			-27.225	109.110	-6.078	1.00 82.91	BBBB
ATOM	4653	ND2	ASN	В	104	-27.312		-4.791	1.00 81.62	BBBB
ATOM	4654	C	ASN			-27.955		-6.589	1.00 80.84	BBBB
ATOM	4655	0	ASN			-26.962		-7.261 -6.033	1.00 80.88	BBBB
ATOM ATOM	4656 4657	N CA	LYS		105	-28.135 -27.142		-6.161	1.00 79.17	BBBB
ATOM	4658	CB	LYS				102.056	-7.587	1.00 81.07	BBBB
ATOM	4659	CG	LYS				101.166	-7.930	1.00 82.51	BBBB
ATOM	4660	CD	LYS	В	105	-29.637	101.959	-8.045	1.00 84.76	BBBB
ATOM	4661	CE	LYS				101.080	-8.547	1.00 85.10	BBBB
ATOM	4662	NZ	LYS			-32.066		-8.716	1.00 83.62 1.00 77.06	BBBB BBBB
ATOM ATOM	4663 4664	С 0	LYS LYS			-25.732 -24.759	103.106	-5.800 -6.498	1.00 77.08	BBBB
ATOM	4665	N	THR				103.862	-4.712	1.00 73.98	BBBB
ATOM	4666	CA	THR				104.368	-4.239	1.00 70.90	BBBB
ATOM	4667	CB	THR	В	106	-24.377	105.898	-4.070	1.00 72.66	BBBB
MOTA	4668	-	THR				106.510	-5.315	1.00 75.33	BBBB
ATOM	4669	CG2	THR				106.412	-3.639	1.00 74.16 1.00 66.88	BBBB BBBB
ATOM ATOM	4670 4671	C			106 106		103.723	-2.882 -1.997	1.00 66.07	BBBB
ATOM	4672	И			107		103.128	-2.712	1.00 61.92	BBBB
ATOM	4673	CA			107		102.483	-1.445	1.00 56.83	BBBB
ATOM	4674	С	GLY	В	107	-21.236	101.962	-1.300	1.00 52.70	BBBB
ATOM	4675	0			107		102.476	-1.909	1.00 50.41	BBBB
ATOM	4676	N			108		100.932	-0.478	1.00 49.74	BBBB BBBB
ATOM	4677 4678	CA CB			108 108	-19.798 -19.963	100.328 99.122	-0.217 0.720	1.00 47.30	BBBB
ATOM ATOM	4679	CG			108	-18.666	98.472	1.204	1.00 45.49	BBBB
ATOM	4680		LEU			-17.889	99.473	2.027	1.00 45.39	BBBB
ATOM	4681		LEU			-18.967	97.241	2.020	1.00 46.00	BBBB
MOTA	4682	С			108	-19.162	99.887	-1.527	1.00 44.95	BBBB
ATOM	4683	0			108	-19.817	99.287	-2.363	1.00 44.03 1.00 43.95	BBBB BBBB
ATOM ATOM	4684 4685	N CA			109 109	-17.885 -17.207	100.180 99.797	-1.701 -2.923	1.00 45.52	BBBB
ATOM	4686	CB			109		101.041	-3.743	1.00 48.22	BBBB
ATOM	4687	CG			109		100.734	-5.134	1.00 53.19	BBBB
ATOM	4688	CD	LYS	В	109		102.000	-5.862	1.00 56.53	BBBB
ATOM	4689	CE			109		102.630	-5.157	1.00 59.64	BBBB
ATOM	4690	NZ			109		103.881 99.018	-5.825 -2.626	1.00 59.80 1.00 43.85	BBBB BBBB
ATOM ATOM	4691 4692	С О			109 109	-15.943 -15.625	98.061	-3.311	1.00 43.03	BBBB
ATOM	4693	N			110	-15.225	99.445	-1.601	1.00 43.26	BBBB
MOTA	4694	CA			110	-13.972	98.815	-1.223	1.00 42.93	BBBB
ATOM	4695	CB			110	-12.852		-1.261	1.00 41.19	BBBB
ATOM	4696	CG			110		100.616	-2.583	1.00 42.88	BBBB
MOTA	4697 4698	CD	GLU		110		101.750 102.194	-2.530 -3.599	1.00 43.28 1.00 44.28	BBBB
MOTA MOTA	4699		GLU				102.209	-1.424	1.00 42.95	BBBB
ATOM	4700	C			110	-14.026		0.170	1.00 44.20	BBBB
ATOM	4701	0	GLU	В	110	-14.114	98.857	1.194	1.00 44.29	BBBB
ATOM	4702	N			111	-13.984		0.191	1.00 42.27	BBBB
ATOM	4703	CA			111	-13.989		1.428 1.509	1.00 40.51	BBBB BBBB
ATOM ATOM	4704 4705	CB			111	-15.271 -15.477		2.699	1.00 37.10	BBBB
ATOM	4706		LEU			-15.595		3.992	1.00 35.62	BBBB
MOTA	4707		LEU			-16.736	93.422	2.486	1.00 38.83	BBBB
MOTA	4708	С	LEU	В	111	-12.753		1.316	1.00 39.38	BBBB
MOTA	4709	0			111	-12.865		1.288	1.00 42.51	BBBB
MOTA	4710	N			112	-11.557 -11.296		1.255 1.457	1.00 36.35 1.00 34.17	BBBB BBBB
MOTA MOTA	4711 4712	CD CA			112	-10.303		1.127	1.00 34.17	BBBB
ATOM	4713	CB			112	-9.296		0.791	1.00 35.39	BBBB
ATOM	4714	CG			112	-9.792		1.650	1.00 35.36	BBBB
MOTA	4715	C			112	-9.852		2.316	1.00 38.61	BBBB
ATOM	4716	0			112	-8.891		3.021	1.00 39.63	BBBB BBBB
MOTA	4717	N			113	-10.532 -10.165		2.533 3.612	1.00 37.25 1.00 37.71	BEBB
ATOM ATOM	4718 4719	CA CB			113	-10.165		4.074	1.00 37.71	BBBB
ATOM	4720	CG			113	-12.540		4.482	1.00 35.66	BBBB
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ATOM	4721	SD	MET B	113	-13.924	91.504	5.337	1.00 36.14	BBBB
ATOM	4722	CE	MET B	113	-14.398	90.291	4.138	1.00 35.85	BBBB
ATOM	4723	С	MET B	113	-9.047	91.140	3.107	1.00 39.20	BBBB
ATOM	4724	0	MET B						
					-9.193	89.917	3.055	1.00 37.57	BBBB
ATOM	4725	И	ARG B	114	-7.928	91.766	2.746	1.00 40.53	BBBB
ATOM	4726	CA	ARG B	114	-6.732	91.131	2.199	1.00 42.71	BBBB
ATOM	4727	CB	ARG B		-5.720	92.213	1.843	1.00 43.49	BBBB
MOTA	4728	CG	ARG B	114	-5.335	93.008	3.088	1.00 47.26	BBBB
MOTA	4729	CD	ARG B	111					
					-4.210	93.997	2.884	1.00 47.49	BBBB
ATOM	4730	NE	ARG B	114	-4.559	95.038	1.935	1.00 50.83	BBBB
ATOM	4731	CZ	ARG B	114	-4.207	96.310	2.063	1.00 51.46	BBBB
ATOM	4732		ARG B		-3.496	96.702	3.115	1.00 50.88	BBBB
ATOM	4733	NH2	ARG B	114	-4.549	97.180	1.124	1.00 52.84	BBBB
ATOM	4734	С	ARG B	111	-6.026	90.126	3.103	1.00 43.99	
									BBBB
MOTA	4735	0	ARG B	114	-4.987	89.581	2.717	1.00 45.79	BBBB
ATOM	4736	N	ASN B	115	-6.549	89.898	4.301	1.00 42.37	BBBB
MOTA	4737	CA	ASN B						
					-5.934	88.952	5.225	1.00 41.86	BBBB
ATOM	4738	CB	ASN B	115	-5.256	89.702	6.381	1.00 41.29	BBBB
ATOM	4739	CG	ASN B	115	-3.921	90.325	5.974	1.00 41.79	BBBB
MOTA	4740		ASN B		-2.977	89.617	5.631	1.00 41.21	BBBB
MOTA	4741	ND2	ASN B	115	-3.842	91.651	6.008	1.00 43.32	BBBB
ATOM	4742	С	ASN B	115	-6.931	87.940	5.773	1.00 42.94	
									BBBB
ATOM	4743	0	ASN B	112	-6.551	86.940	6.366	1.00 46.00	BBBB
ATOM	4744	N	LEU B	116	-8.215	88.200	5.583	1.00 42.55	BBBB
ATOM	4745	CA	LEU B	116	-9.231	87.285			
							6.059	1.00 41.84	BBBB
ATOM	4746	CB	LEU B	116	-10.616	87.789	5.684	1.00 37.86	BBBB
ATOM	4747	·CG	LEU B	116	-11.740	86.839	6.058	1.00 37.21	BBBB
MOTA	4748		LEU B		-11.855	86.748	7.580	1.00 37.01	BBBB
ATOM	4749	CD2	LEU B	116	-13.034	87.342	5.451	1.00 37.20	BBBB
ATOM	4750	С	LEU B	116	-8.976	85.943	5.390	1.00 44.16	
									BBBB
ATOM	4751	0	LEU B	116	-9.349	85.724	4.237	1.00 45.34	BBBB
ATOM	4752	N	GLN B	117	-8.334	85.040	6.113	1.00 45.78	BBBB
ATOM	4753	CA	GLN B						
					-8.047	83.742	5.548	1.00 46.67	BBBB
ATOM	4754	CB	GLN B	117	-6.539	83.527	5.556	1.00 47.11	BBBB
ATOM	4755	CG	GLN B	117	-5.890	84.405	4.500	1.00 48.45	BBBB
ATOM	4756	CD							
			GLN B		-4.447	84.696	4.768	1.00 50.40	BBBB
MOTA	4757	OE1	GLN B	117	-4.084	85.114	5.870	1.00 52.68	BBBB
ATOM	4758	NE2	GLN B	117	-3.605	84.497	3.759	1.00 51.31	BBBB
ATOM	4759	C	GLN B		-8.793	82.595	6.205	1.00 46.50	BBBB
ATOM	4760	0	GLN B	117	-8.794	81.479	5.693	1.00 46.81	BBBB
ATOM	4761	N	GLU B	119	-9.486	82.878	7.302	1.00 45.49	
									BBBB
ATOM	4762	CA	GLU B	118	-10.214	81.825	7.978	1.00 44.03	BBBB
MOTA	4763	CB	GLU B	118	-9.296	81.181	9.016	1.00 45.93	BBBB
ATOM	4764	CG	GLU B		-9.926	80.062			
							9.800	1.00 45.76	BBBB
MOTA	4765	CD	GLU B	118	-9.362	78.718	9.420	1.004 <i>-</i> 7- <i>-</i> -93	-BBBB-
MOTA	4766	OE1	GLU B	118	-8.111	78.595	9.396	1.00 45.04	BBBB
ATOM	4767	OE2							
					-10.170	77.794	9.157	1.00 48.53	BBBB
ATOM	4768	С	GLU B	118	-11.507	82.252	8.654	1.00 43.99	BBBB
ATOM	4769	0	GLU B	118	-11.579	83.292	9.307	1.00 43.19	BBBB
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ATOM	4770	N	ILE B		-12.525	81.416	8.496	1.00 45.31	BBBB
MOTA	4771	CA	ILE B	119	-13.827	81.621	9.118	1.00 46.92	BBBB
ATOM	4772	CB	ILE B	119	-14.939	81.988	8.097	1.00 44.93	BBBB
ATOM	4773								
			ILE B		-16.287	82.037	8.799	1.00 43.65	BBBB
ATOM	4774	CG1	ILE B	119	-14.646	83.339	7.447	1.00 43.05	BBBB
ATOM	4775	CD1	ILE B	119	-15.807	83.882	6.658	1.00 42.27	BBBB
ATOM	4776	С							
			ILE B		-14.141	80.253	9.687	1.00 49.30	BBBB
ATOM	4777	0	ILE B	119	-14.980	79.539	9.151	1.00 52.83	BBBB
ATOM	4778	N	LEU B	120	-13.440	79.893	10.758	1.00 51.66	BBBB
ATOM	4779	CA	LEU B		-13.582	78.602	11.431	1.00 52.26	BBBB
ATOM	4780	CB	LEU B	120	-13.074	78.700	12.863	1.00 53.27	BBBB
ATOM	4781	CG	LEU B	120	-11.609	79.071	12.996	1.00 53.79	BBBB
ATOM	4782		LEU B		-11.272	79.263	14.465	1.00 56.21	BBBB
ATOM	4783	CD2	LEU B	120	-10.760	77.978	12.369	1.00 55.02	BBBB
MOTA	4784	С	LEU B		-14.977	78.023	11.459	1.00 53.13	BBBB
ATOM	4785	0	LEU B		-15.171	76.846	11.172	1.00 55.10	BBBB
MOTA	4786	N	HIS B	121	-15.954	78.836	11.824	1.00 53.83	BBBB
ATOM	4787	CA	HIS B		-17.316	78.344	11.872	1.00 55.84	
									BBBB
MOTA	4788	CB	HIS B	121	-17.737	78.175	13.330	1.00 58.57	BBBB
ATOM	4789	CG	HIS B	121	-16.898	77.188	14.087	1.00 65.05	BBBB
ATOM	4790								
			HIS B		-16.032	77.355	15.116	1.00 65.79	BBBB
MOTA	4791	ND1	HIS B	121	-16.879	75.842	13.786	1.00 67.29	BBBB
ATOM	4792	CE1	HIS B	121	-16.038	75.222	14.597	1.00 67.99	BBBB
ATOM	4793		HIS B						
					-15.510	76.118	15.413	1.00 67.35	BBBB
MOTA	4794	С	HIS B	121	-18.268	79.276	11.130	1.00 54.97	BBBB
ATOM	4795	0	HIS B	121	-17.949	80.437	10.907	1.00 54.08	BBBB

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	ATOM	4796	N	GLY B	122	-19.415	78.748	10.713	1.00 53.92	BBBB
	ATOM	4797	CA	GLY B		-20.407	79.564	10.037	1.00 54.50	BBBB
	ATOM	4798	C	GLY B		-20.272	79.840	8.550	1.00 55.53	BBBB
	ATOM	4799	0	GLY B		-19.197	79.733	7.961	1.00 56.26	BBBB
	ATOM	4800	N	ALA B		-21.390	80.217	7.941	1.00 56.46	BBBB
	MOTA	4801	CA	ALA B		-21.429	80.519	6.518	1.00 57.24	BBBB
	MOTA	4802	CB	ALA B	123	-22.756	80.080	5.936	1.00 56.75	BBBB
	ATOM	4803	С	ALA B		-21.222	82.001	6.250	1.00 57.69	BBBB
	ATOM	4804	0	ALA B	123	-21.243	82.829	7.164	1.00 57.70	BBBB
	MOTA	4805	N	VAL B	124	-21.021	82.317	4.977	1.00 57.56	BBBB
	ATOM	4806	CA	VAL B	124	-20.824	83.682	4.532	1.00 57.01	BBBB
	MOTA	4807	CB	VAL B	124	-19.551	83.792	3.693	1.00 56.42	BBBB
	ATOM	4808		VAL B		-19.326	85.229	3.269	1.00 56.96	BBBB
	ATOM	4809	CG2	VAL B		-18.373	83.280	4.492	1.00 55.83	BBBB
	MOTA	4810	С	VAL B		-22.034	84.058	3.685	1.00 57.65	BBBB
	ATOM	4811	0	VAL B		-22.650	83.195	3.061	1.00 58.70	BBBB
	ATOM	4812	N	ARG B		-22.383	85.340	3.670	1.00 58.34	BBBB
	ATOM	4813	CA	ARG B		-23.529	85.798	2.894	1.00 56.99	BBBB
	ATOM	4814	CB	ARG B		-24.816	85.617	3.694	1.00 58.12	BBBB
	MOTA	4815	CG	ARG B		-25.996	86.378	3.122	1.00 59.56	BBBB
	ATOM	4816	CD	ARG B		-27.298	85.644	3.356	1.00 61.96	BBBB
	MOTA	4817	NE	ARG B		-28.416	86.321	2.708	1.00 65.48 1.00 67.53	BBBB BBBB
	ATOM ATOM	4818 4819	CZ	ARG B		-29.011 -28.605	87.410 87.961	3.184 4.322	1.00 67.92	BBBB
	ATOM	4820		ARG B		-30.017	87.953	2.519	1.00 69.10	BBBB
	ATOM	4821	C	ARG B		-23.454	87.239	2.426	1.00 55.73	BBBB
	ATOM	4822	o	ARG B		-23.581	88.163	3.224	1.00 55.75	BBBB
	ATOM	4823	N	PHE B		-23.251	87.414	1.124	1.00 55.93	BBBB
	ATOM	4824	CA	PHE B		-23.204	88.735	0.506	1.00 55.15	BBBB
	ATOM	4825	CB	PHE B		-22.048	88.828	-0.474	1.00 52.32	BBBB
	ATOM	4826	CG	PHE B		-20.733	89.080	0.179	1.00 52.87	BBBB
	ATOM	4827		PHE B		-20.143	88.111	0.978	1.00 53.18	BBBB
	ATOM	4828		PHE B		-20.082	90.297	0.005	1.00 52.86	BBBB
	ATOM	4829	CE1	PHE B	126	-18.915	88.350	1.596	1.00 53.31	BBBB
	ATOM	4830	CE2	PHE B	126	-18.857	90.549	0.617	1.00 53.38	BBBB
	ATOM	4831	CZ	PHE B	126	-18.272	89.572	1.414	1.00 52.98	BBBB
	ATOM	4832	C	PHE B	126	-24.524	88.950	-0.220	1.00 55.55	BBBB
	ATOM	4833	0	PHE B		-25.099	88.010	-0.760	1.00 55.27	BBBB
	ATOM	4834	N	SER B		-25.009	90.185	-0.233	1.00 56.38	BBBB
	ATOM	4835	CA	SER B		-26.289	90.462	-0.872	1.00 56.14	BBBB
	MOTA	4836	CB	SER B		-27.383	89.646	-0.178	1.00 56.36	BBBB
	MOTA	4837	OG	SER B		-28.649	90.237	-0.380	1.00 58.63	BBBB
	ATOM	4838	C	SER B		-26.687	91.939	-0.893	1.00 55.25	BBBB
	ATOM ATOM	4839	0	SEK B ASN-B		-26.644 27 <del>.</del> 084-	92.631	0.126	1.00 54.09 -1 <del>.00-53.89-</del>	BBBB - BBBB
	ATOM	4841	CA	ASN B		-27.510	93.774	-2.294	1.00 53.43	BBBB
	ATOM	4842	CB	ASN B		-28.716	94.131	-1.429	1.00 54.98	BBBB
	ATOM	4843	CG	ASN B		-29.907	93.264	-1.716	1.00 59.01	BBBB
	ATOM	4844		ASN B		-30.994	93.498	-1.193	1.00 62.44	BBBB
	ATOM	4845		ASN B		-29.713	92.242	-2.545	1.00 60.25	BBBB
	ATOM	4846	С	ASN B		-26.432	94.790	-2.037	1.00 51.62	BBBB
	ATOM	4847	0	ASN B	128	-26.624	95.711	-1.250	1.00 52.05	BBBB
	ATOM	4848	N	ASN B	129	-25.302	94.639	-2.705	1.00 49.60	BBBB
	ATOM	4849	CA	ASN B		-24.224	95.593	-2.532	1.00 50.71	BBBB
	ATOM	4850	CB	ASN B		-23.028	94.886	-1.892	1.00 50.65	BBBB
	ATOM	4851	CG	ASN B		-23.399	94.233	-0.567	1.00 50.68	BBBB
	ATOM	4852		ASN B		-23.833	94.907	0.365	1.00 49.95	BBBB
	MOTA	4853		ASN B		-23.256	92.916	-0.488	1.00 51.25	BBBB
	ATOM	4854	C	ASN B		-23.924	96.167	-3.915	1.00 51.09	BBBB
	MOTA	4855	0	ASN B		-22.837	96.004	-4.465	1.00 50.80	BBBB
	MOTA	4856	N	PRO B		-24.916	96.877	-4.481	1.00 52.04 1.00 52.20	BBBB
	MOTA	4857	CD	PRO B		-26.083	97.322	-3.690		BBBB BBBB
	ATOM ATOM	4858 4859	CA CB	PRO B		-24.928 -26.035	97.532 98.570	-5.789 -5.640	1.00 50.19 1.00 51.13	BBBB
	ATOM	4860	CG	PRO B		-27.009	97.877	-4.749	1.00 50.78	BBBB
	ATOM	4861	C	PRO B		-23.629	98.157	-6.235	1.00 49.43	BBBB
	ATOM	4862	0	PRO B		-23.409	98.324	-7.432	1.00 43.43	BBBB
	ATOM	4863	N	ALA B		-22.758	98.492	-5.292	1.00 31.44	BBBB
•	ATOM	4864	CA	ALA B		-21.504	99.133	-5.657	1.00 44.63	BBBB
	ATOM	4865	CB	ALA B		-21.432		-4.996	1.00 43.20	BBBB
	ATOM	4866	c	ALA B		-20.248	98.353	-5.335	1.00 43.92	BBBB
	ATOM	4867	ō	ALA B		-19.155	98.795	-5.666	1.00 42.82	BBBB
	ATOM	4868	N	LEU B	132	-20.402	97.192	-4.707	1.00 46.29	BBBB
	ATOM	4869	CA	LEU B		-19.254	96.379	-4.280	1.00 47.15	BBBB
	ATOM	4870	CB	LEU B	132	-19.733	95.255	-3.363	1.00 45.86	BBBB

ATOM	4871	CG	LEU	В	132	-18.611	94.617	-2.545	1 00	45.84	BB	DD
ATOM	4872		LEU			-17.713	95.687					
								-1.940		43.20	BB	
ATOM	4873	CD2	LEU	В	132	-19.232	93.757	-1.467	1.00	46.84	BB:	BB
ATOM	4874	С	LEU	В	132	-18.339	95.796	-5.353	1.00	47.03	BB	BB
ATOM	4875	0	LEU	В	132	-18.761	94.988	-6.169		49.55	BBI	
ATOM	4876	N			133							
						-17.071	96.188	-5.301		46.67	BB	BB
MOTA	4877	CA			133	-16.060	95.756	-6.256	1.00	47.56	BB	BB
ATOM	4878	С	CYS	В	133	-15.140	94.615	-5.807	1.00	47.98	BB	
ATOM	4879	0			133	-15.023	94.317	-4.619		47.13		
											BB	
ATOM	4880	CB			133	-15.180	96.948	-6.643	1.00	50.84	BB	BB
ATOM	4881	SG	CYS	В	133	-15.962	98.187	-7.732	1.00	55.97	BBI	BB
ATOM	4882	N	ASN	В	134	-14.479	94.000	-6.790		46.92	BB	
ATOM	4883	CA	ASN			-13.527						
							92.905	-6.587		44.92	BB	
ATOM	4884	CB	ASN			-12.280	93.448	-5.905	1.00	44.68	BB	BB
ATOM	4885	CG	ASN	В	134	-11.664	94.610	-6.658	1.00	45.74	BBI	BB
ATOM	4886	OD1	ASN	R	134	-11.217	94.461	-7.791		45.46	BB	
ATOM	4887	ND2	ASN	- D	124							
						-11.635	95.775	-6.029		45.30	BB	BB
ATOM	4888	С	ASN			-13.996	91.648	-5.840	1.00	44.29	BB:	BB
MOTA	4889	0	ASN	В	134	-13.952	90.545	-6.381	1.00	42.79	BB	RR
ATOM	4890	N			135	-14.432	91.814	-4.598		43.28		
ATOM											BB	
	4891	CA			135	-14.871	90.693	-3.773		42.01	BB	BB
ATOM	4892	CB	VAL	В	135	-15.923	91.164	-2.716	1.00	39.61	BB:	BB
ATOM	4893	CG1	VAL	В	135	-16.339	90.013	-1.816	1 00	37.26	BB:	
ATOM	4894		VAL			-15.328	92.259					
								-1.865		36.16	BB	
ATOM	4895	С	VAL	В	135	-15.396	89.459	-4.527	1.00	42.61	BB	BB
ATOM	4896	0	VAL	В	135	-15.121	88.337	-4.118	1.00	43.35	BBI	BB
ATOM	4897	N	GLU	R	136	-16.126	89.644	-5.623		43.47	BB	
ATOM	4898											
		CA			136	-16.649	88.488	-6.372	1.00	45.43	BB:	BB
ATOM	4899	CB	GLU	В	136	-17.531	88.949	-7.563	1.00	44.18	BB:	BB
ATOM	4900	CG	GLU	В	136	-16.819	89.433	-8.838	1.00	44.47	BB	BB
ATOM	4901	CD	GLH		136	-15.899	90.648	-8.639		47.18		
ATOM	4902										BB	
			GLU			-16.181	91.478	-7.739	1.00	49.37	BB!	BB
ATOM	4903	OE2	GLU	В	136	-14.902	90.783	-9.400	1.00	44.04	BBI	BB
ATOM	4904	Ç	GLU	В	136	-15.549	87.519	-6.861	1.00	45.81	BBI	
ATOM	4905	0			136	-15.801	86.328	-7.043				
										45.64	BB	
MOTA	4906	N			137	-14.334	88.029	-7.047	1.00	46.09	BB	вв
ATOM	4907	CA	SER	В	137	-13.208	87.217	-7.499	1.00	48.19	BB!	BB
ATOM	4908	CB	SER	В	137	-12.050	88.115	-7.933		48.12	BB	
MOTA	4909	OG			137							
						-11.292	88.567	-6.817		45.96	BBI	
ATOM	4910	С	SER	В	137	-12.692	86.281	-6.401	1.00	51.27	BB:	BB
ATOM	4911	0	SER	₿	137	-11.990	85.302	-6.676	1.00	53.42	BB	BB
ATOM	4912	N	TIF	B	138	-13.028	86.592	-5.156		51.71		
ATOM	4913	CA									BBI	
					138	-12.577	85.794	-4.029		51.89	BB	BB
ATOM	4914	CB			138	-13.026	86.439	-2.681	1.00	49.98	BBI	BB
TATOM	4915	CG2	ILE	В	138	-172.839	85.471	-1.531	1.00	49.45	BB	BB-
ATOM	4916		ILE			-12.239	87.731					
								-2.435		48.61	BB	
ATOM	4917		ILE			-10.737	87.604	-2.657	1.00	45.12	BB!	BB
MOTA	4918	C	ILE	В	138	-13.053	84.347	-4.088	1.00	53.74	BB	BB
ATOM	4919	ο.	ILE	В	138	-14.207	84.070	-4.432	1.00	52.61	BBI	ŔŔ
MOTA	4920	N			139	-12.128	83.440	-3.766				
										55.71	BBI	
ATOM	4921	CA			139	-12.372	81.999	-3.710		57.08	BB	BB
ATOM	4922	CB	GLN	В	139	-11.147	81.221	-4.197	1.00	57.19	BBI	BB
MOTA	4923	CG	GLN	В	139	-10.490	81.771	-5.453	1.00	56.56	BBI	BB
ATOM	4924	CD			139	-9.419	80.845	-5.992		56.64		
ATOM	4925		GLN								BBI	
						-9.699	79.695	-6.351		55.35	BBI	
MOTA	4926	NEZ	GLN			-8.182	81.338	-6.051	1.00	54.43	BB	ВB
MOTA	4927	C	GLN	В	139	-12.560	81.734	-2.223	1.00	59.11	BBI	BB
ATOM	4928	0			139	-11.594	81.749	-1.452		58.67	BB	
ATOM	4929	N			140	-13.798						
							81.504	-1.809		60.75	BBI	BB
MOTA	4930	CA	TRP	В	140	-14.067	81.285	-0.400	1.00	62.57	BB!	ΒB
ATOM	4931	CB	TRP	В	140	-15.514	81.667	-0.090	1.00	63.54	BBI	ВВ
ATOM	4932	CG	TRP	B	140	-15.807	83.111	-0.360		64.18	BB	
ATOM	4933		TRP									
						-15.685	84.197	0.569		65.34	BBI	
MOTA	4934	CE2	TRP	В	140	-16.023	85.378	-0.125	1.00	65.23	BBI	BB
ATOM	4935	CE3	TRP	В	140	-15.320	84.285	1.923		64.32	BB	
ATOM	4936		TRP			-16.204	83.661					
								-1.543		64.07	BB	
ATOM	4937	NET	TRP	В	140	-16.337	85.022	-1.411	1.00	65.04	BBI	ВB
ATOM	4938	CZ2	TRP	В	140	-16.009	86.637	0.488	1.00	64.12	BB!	BB
MOTA	4939	CZ3	TRP	B	140	-15.307	85.532	2.529		63.40	BBI	
ATOM	4940	Cno	TRP	5	140							
						~15.650	86.692	1.810		64.40	BB	
MOTA	4941	С			140	-13.781	79.872	0.088	1.00	63.61	BB	BB
ATOM	4942	0	TRP	В	140	-13.931	79.574	1.275	1.00	63.10	BBI	BB
MOTA	4943	N			141	-13.352	79.010	-0.828		64.22	BB	
ATOM	4944											
		CA			141	-13.065	77.627	-0.488		64.16	BB	
MOTA	4945	CB	ARG	В	141	-12.958	76.792	-1.766	1.00	66.58	BBI	ВB

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MOTA	4946	CG	ARG	В	141	-13.015	75.290	-1.538	1.00 69.36	BBBB
			ARG			-12.947	74.520	-2.847	0.01 69.95	BBBB
ATOM	4947	CD								BBBB
ATOM	4948	NE	ARG	В	141	-14.090	74.803	-3.710	0.01 71.08	
ATOM	4949	√CZ	ARG	В	141	-14.288	74.238	-4.896	0.01 71.57	BBBB
	4950	NH1				-13.417	73.355	-5.365	0.01 71.93	BBBB
ATOM									·	
ATOM	4951	NH2	ARG	В	141	-15.357	74.554	-5.614	0.01 71.93	BBBB
ATOM	4952	С	ARG	В	141	-11.786	77.507	0.336	1.00 63.56	BBBB
	4953	0	ARG			-11.601	76.524	1.052	1.00 64.93	BBBB
MOTA										
ATOM	4954	N	ASP	В	142	-10.919	78.514	0.237	1.00 61.53	BBBB
ATOM	4955	CA	ASP	В	142	-9.649	78.553	0.967	1.00 58.99	BBBB
	4956		ASP			-8.586	79.256	0.101	1.00 58.24	BBBB
MOTA		CB								
ATOM	4957	CG	ASP	В	142	-7.264	79.519	0.840	1.00 58.74	BBBB
ATOM	4958	ODI	ASP	B	142	-7.278	80.163	1.911	1.00 59.71	BBBB
						-6.196	79.104	0.338	1.00 55.50	BBBB
MOTA	4959	QDZ	ASP						_	
ATOM	4960	C	ASP	В	142	-9.844	79.307	2.282	1.00 58.79	BBBB
ATOM	4961	0	ASP	В	142	-8.975	79.291	3.151	1.00 59.21	BBBB
							79.939	2.438	1.00 58.55	BBBB
MOTA	4962	N			143	-11.002				
ATOM	4963	ÇA	ILE	В	143	-11.290	80.734	3.629	1.00 59.40	BBBB
ATOM	4964	CB	TLE	R	143	-11.803	82.139	3.231	1.00 58.68	BBBB
									1.00 58.34	BBBB
MOTA	4965	CG2	ILE	В	143	-12.217	82.919	4.469		
ATOM	4966	CG1	ILE	В	143	-10.722	82.887	2.453	1.00 58.58	BBBB
ATOM	4967	CD1	ILE	R	143	-11.141	84.260	1.990	1.00 58.88	BBBB
									1.00 60.47	BBBB
MOTA	4968	С			143	-12.303	80.141	4.599		
ATOM	4969	0	ILE	В	143	-12.100	80.172	5.808	1.00 59.94	BBBB
ATOM	4970	И			144	-13.396	79.617	4.060	1.00 63.28	BBBB
ATOM	4971	CA	VAL	В	144	-14.470	79.056	4.864	1.00 66.68	BBBB
ATOM	4972	CB	VAL	В	144	-15.830	79.286	4.162	1.00 65.66	BBBB
ATOM	4973		VAL			-16.974	78.825	5.042	1.00 65.75	BBBB
				_						
ATOM	4974	CG2	VAL	В	144	-15.989	80.754	3.833	1.00 66.14	BBBB
ATOM	4975	С	VAL	В	144	-14.311	77.570	5.166	1.00 70.63	BBBB
	4976	0			144	-13.539	76.861	4.520	1.00 71.45	BBBB
ATOM										
ATOM	4977	N	SER	В	145	-15.049	77.110	6.168	1.00 74.71	BBBB
ATOM	4978	CA	SER	В	145	-15.027	75.716	6.564	1.00 79.26	BBBB
	4979	CB			145	-15.797	75.531	7.869	1.00 79.64	BBBB
MOTA										
ATOM	4980	OG	SER	В	145	-15.866	74.164	8.227	1.00 81.38	BBBB
ATOM	4981	С	SER	В	145	-15.680	74.895	5.466	1.00 82.78	BBBB
						-16.727	75.273	4.938	1.00 83.31	BBBB
MOTA	4982	0			145					
ATOM	4983	И	SER	В	146	-15.060	73.768	5.132	1.00 86.79	BBBB
ATOM	4984	CA	SER	В	146	-15.562	72.877	4.090	1.00 90.59	BBBB
							71.695	3.921	1.00 90.77	BBBB
MOTA	4985	CB			146	-14.607				
ATOM	4986	OG	SER	В	146	-13.275	72.143	3.746	1.00 91.49	BBBB
MOTA	4987	С	SER	В	146	-16.970	72.355	4.386	1.00 92.92	BBBB
						-17.554	71.635	3.577	1.00 93.10	BBBB
MOTA	4988	0			146					
MOTA	4989	N			147	-17.511		5.544	1.00 95.33	BBBB
ATOM	4990	CA	ASP	B	71 47	18-840	72.272	5.932	1.00 98.36	- BBBB
								7.412	1.00 99.38	BBBB
ATOM	4991	CB			147	-18.856				
MOTA	4992	CG	ASP	В	147	-17.835	70.831	7.753	1.00100.49	BBBB
ATOM	4993	OD1	ASP	В	147	-17.780	70.421	8.931	1.00101.56	BBBB
							70.405	6.848		BBBB
ATOM	4994	ODZ			147					
MOTA	4995	С	ASP	В	147	-19.901	73.331	5.683	1.00100.44	BBBB
ATOM	4996	0	ASP	B	147	-21.099	73.046	5.766	1.00100.78	BBBB
								5.381	1.00102.29	BBBB
ATOM	4997	N			148	-19.466				
ATOM	4998	CA	PHE	В	148	-20.404	75.638	5.142	1.00104.13	BBBB
ATOM	4999	CB	PHE	B	148	-20.186	76.762	6.162	1.00103.77	BBBB
								7.597	1.00102.93	BBBB
ATOM	5000	CG	PHE	, p	148	-20.294				
MOTA	5001	CD1	PHE	В	148	-19.196	75.768	8.256	1.00102.74	BBBB
MOTA	5002	CD2	PHE	· 12	148	-21.493	76.447	8.292	1.00102.05	BBBB
									1.00102.16	BBBB
ATOM	5003	CET	PHE	. в	148	-19.289		9.588		
MOTA	5004	CE2	PHE	В	148	-21.595	76.044	9.622	1.00101.53	BBBB
ATOM	5005	CZ			148	-20.491	75.501	10.271	1.00101.14	BBBB
										BBBB
ATOM	5006	С	PHE		148	-20.333	76.212	3.730	1.00105.35	
MOTA	5007	0	PHE	B	148	-21.093	77.116	3.387	1.00105.31	BBBB
ATOM	5008	N			149	-19.422		2.914	1.00107.15	BBBB
										BBBB
ATOM	5009	CA	LEU	В	149	-19.280		1.539	1.00108.87	
MOTA	5010	CB	LEU	E	149	-18.225	75.335	0.797	1.00108.74	BBBB
	5011	CG			149	-16.762		1.173	1.00109.18	BBBB
MOTA										BBBB
ATOM	5012	CD1	LEU	E	149	-15.864		0.525	1.00109.17	
ATOM	5013	CD2	LEU	JE	149	-16.363	76.995	0.734	1.00109.07	BBBB
	5014	C			149	-20.613		0.804	1.00110.12	BBBB
MOTA										BBBB
ATOM	5015	0	LEU	E	149	-20.925	76.913	-0.041	1.00109.68	
ATOM	5016	N	SEF	E	150	-21.395	75.053	1.138	1.00112.26	BBBB
	5017	CA			150	-22.698		0.516	1.00114.47	BBBB
ATOM									1 00114 42	BBBB
MOTA	5018	CB			150	-23.034		0.484	1.00114.42	
ATOM	5019	OG	SEF	RE	150	-23.004	72.790	1.786	1.00115.03	BBBB
		C			150			1.269	1.00115.71	BBBB
ATOM	5020	Ç	ಎರಗ	\ E	100	-23.784	10.012	1.203		

ATOM	5021	0	SER	В	150	-24.906	75.764	0.786	1.00116.46	BBBB
ATOM	5022	N	ASN			-23.443	76.092	2.459	1.00116.68	BBBB
ATOM	5023	CA								
			ASN			-24.379	76.856	3.271	1.00116.96	BBBB
ATOM	5024	CB	ASN			-23.991	76.740	4.748	1.00118.02	BBBB
ATOM	5025	CG	ASN	В	151	-25.184	76.831	5.676	1.00119.46	BBBB
ATOM	5026	OD1	ASN	В	151	-26.059	75.962	5.666	1.00120.20	BBBB
ATOM	5027	ND2	ASN	B	1.51	-25.228	77.885	6.486	1.00120.22	BBBB
ATOM	5028	C	ASN							
						-24.235	78.299	2.796	1.00116.67	BBBB
ATOM	5029	0	ASN			-25.007	79.183	3.166	1.00116.27	BBBB
ATOM	5030	N	MET	₿	152	-23.230	78.501	1.951	1.00116.56	BBBB
ATOM	5031	CA	MET	В	152	-22.886	79.796	1.380	1.00116.72	BBBB
ATOM	5032	СВ	MET			-21.659	79.626	0.486		
ATOM	5033		MET						1.00118.36	BBBB
		CG				-21.122	80.900	-0.128	1.00120.16	BBBB
ATOM	5034	SD	MET	В	152	-19.584	80. <b>5</b> 56	-0.998	1.00122.97	BBBB
ATOM	5035	CE	MET	В	152	-18.485	80.209	0.405	1.00121.57	BBBB
ATOM	5036	С	MET	В	152	-24.000	80.478	0.590	1.00115.97	BBBB
ATOM	5037	0	MET			-24.901	79.826	0.063		
ATOM									1.00116.12	BBBB
	5038	N			153	-23.913	81.803	0.514	1.00114.66	BBBB
ATOM	5039	CA	SER	В	153	-24.882	82.620	-0.208	1.00113.03	BBBB
MOTA	5040	CB	SER	В	153	-26.016	83.043	0.726	1.00112.30	BBBB
ATOM	5041	OG	SER	R	153	-26.996	83.790	0.029	1.00111.51	BBBB
ATOM	5042	C			153	-24.176	83.856			
								-0.762	1.00112.42	BBBB
ATOM	5043	0			153	-24.596	84.987	-0.520	1.00111.93	BBBB
ATOM	5044	И	MET	В	154	-23.094	83.625	-1.500	1.00112.10	BBBB
MOTA	5045	CA	MET	В	154	-22.310	84.700	-2.101	1.00111.52	BBBB
ATOM	5046	CB	MET	R	154	-21.048	84.127	-2.750	1.00112.13	BBBB
ATOM	5047	CG	MET			-21.321				
							83.219	-3.959	1.00113.26	BBBB
ATOM	5048	SD	MET			-22.194	81.659	-3.586	1.00115.32	BBBB
ATOM	5049	CE	MET	В	154	-20.915	80.451	-3.905	1.00113.17	BBBB
ATOM	5050	C	MET	В	154	-23.127	85.431	-3.160	1.00110.94	BBBB
ATOM	5051	0	MET			-24.208	84.983	-3.537	1.00110.87	BBBB
ATOM	5052	N								
					155	-22.596	86.551	-3.640	1.00110.28	BBBB
ATOM	5053	CA			155	-23.249	87.363	-4.667	1.00110.21	BBBB
ATOM	5054	CB	ASP	В	155	-24.745	8 <b>7.5</b> 15	-4.380	1.00110.88	BBBB
ATOM	5055	CG	ASP	В	155	-25.610	86.882	-5.456	1.00111.81	BBBB
ATOM	5056	OD1	ASP	R	155	-25.511	85.652	-5.659	1.00111.60	BBBB
ATOM	5057		ASP							
						-26.388	87.617	-6.101	1.00112.10	BBBB
ATOM	5058	С			155	-22.596	88.735	-4.699	1.00109.74	BBBB
ATOM	5059	0	ASP	В	155	-22.377	89.349	-3.655	1.00110.48	BBBB
MOTA	5060	N	PHE	В	156	-22.273	89.219	-5.894	1.00108.48	BBBB
ATOM	5061	CA	PHE	B	156	-21.621	90.517	-6.011	1.00107.02	BBBB
ATOM	5062	CB			156					
						-20.106	90.337	-5.881	1.00108.17	BBBB
ATOM	5063	CG			156	-19.714	89.230	-4.942	1.00109.50	BBBB
ATOM	5064	CD1	PHE	В	156	-19.812	87.899	-5.341	1.00110.20	BBBB
ATOM	5065	CD2	PHE	В	156	-19.325	89.509	-3.639	1.00109.92 -	BBBB -
ATOM	5066		PHE			-19.535	86.863	-4.454	1.00110.53	BBBB
ATOM	5067		PHE							
						-19.046	88.479	-2.745	1.00110.48	BBBB
ATOM	5068	CZ			156	-19.153	87.154	-3.154	1.00110.80	BBBB
ATOM	5069	С	PHE	В	156	-21.960	91.211	-7.325	1.00105.60	BBBB
MOTA	5070	0	PHE	В	156	-21.112	91.874	-7.928	1.00105.71	BBBB
ATOM	5071	N	GT.N	R	157	-23.207	91.053	-7.762	1.00103.08	BBBB
ATOM	5072	CA			157	-23.679	91.667	-8.997		
									1.00100.31	BBBB
ATOM	5073	CB			157	-25.059	91.113	-9.340	1.00100.99	BBBB
ATOM	5074	CG			157	-25.028	89.611	-9.594	1.00101.56	BBBB
MOTA	5075	CD			157	-26.395	89.024	-9.859	1.00101.74	BBBB
ATOM	5076	OE1	GLN	R	157	-27.111	89.466	-10.757	1.00101.92	BBBB
ATOM	5077	NES	GLN	- D	157	-26.764				
							88.015	-9.080	1.00101.91	BBBB
ATOM	5078	C			157	-23.716	93.184	-8.827	1.00 97.69	BBBB
ATOM	5079	0	GLN	В	157	-24.554	93.724	-8.106	1.00 97.57	BBBB
ATOM	5080	N	ASN	В	158	-22.796	93.860	-9.509	1.00 94.46	BBBB
ATOM	5081	CA	ASN	В	158	-22.657	95.310	-9.414	1.00 91.18	BBBB
ATOM	5082	CB			158	-21.428	95.625	-8.570		
									1.00 91.04	BBBB
ATOM	5083	CG			158	-20.144	95.067	-9.182	1.00 90.57	BBBB
ATOM	5084		ASN			-19.046	95.532	-8.877	1.00 90.72	BBBB
MOTA	5085	ND2	ASN	В	158	-20.281	94.061	-10.042	1.00 89.01	BBBB
MOTA	5086	С			158	-22.500		-10.760	1.00 88.84	BBBB
ATOM	5087	ō			158	-22.982		-11.792	1.00 88.90	BBBB
ATOM	5088	N			159	-21.818		-10.714	1.00 85.89	BBBB
ATOM	5089	CA			159	-21.524	97.972	-11.894	1.00 81.99	BBBB
MOTA	5090	CB	HIS	В	159	-21.607	99.462	-11.572	1.00 82.24	BBBB
ATOM	5091	CG			159		100.345		1.00 82.09	BBBB
ATOM	5092		HIS				100.119		1.00 82.10	BBBB
ATOM	5093		HIS				101.641		1.00 81.86	BBBB
ATOM	5094	CE1	HIS	В	159	-20.334	102.174	-13.621	1.00 82.63	BBBB
MOTA	5095	NE2	HIS	В	159	-20.504	101.271	-14.571	1.00 82.42	BBBB

ATOM	5096	С	HIS E	159	-20.091	97.636	-12.292	1.00 79.33	BBBB
ATOM	5097	0	HIS E		-19.148	98.330	-11.903	1.00 77.67	BBBB
ATOM	5098	N	LEU E		-19.943	96.563	-13.062	1.00 76.42	BBBB
ATOM	5099	CA	LEU E		-18.644		-13.520	1.00 73.22	BBBB
MOTA	5100	СВ	LEU E		-18.845		-14.666	1.00 73.70	BBBB
ATOM	5101	CG	LEU E		-19.569		-14.258	1.00 73.93	BBBB
ATOM	5102		LEU E		-20.094		-15.480	1.00 74.36	BBBB
ATOM	5102		LEU E				-13.464	1.00 74.30	BBBB
					-18.609				
ATOM	5104	С	LEU E		-17.696		-13.957	1.00 70.59	BBBB
ATOM	5105	0	LEU E		-16.484		-13.770	1.00 70.07	BBBB
ATOM	5106	N	GLY E		-18.255		-14.529	1.00 68.54	BBBB
ATOM	5107	CA	GLY E		-17.445		-15.010	1.00 66.49	BBBB
ATOM	5108	С	GLY E			100.202		1.00 64.54	BBBB
ATOM	5109	0	GLY E	3 161	-15.650	100.722	-14.231	1.00 64.54	BBBB
MOTA	5110	N	SER E	162	-17.323	100.333	-12.793	1.00 63.71	BBBB
ATOM	5111	CA	SER E	162	-16.744	101.132	-11.716	1.00 62.50	BBBB
ATOM	5112	CB	SER E	162	-17.835	101.520	-10.738	1.00 62.33	BBBB
ATOM	5113	OG	SER E	162	-18.518	100.353	-10.328	1.00 64.23	BBBB
ATOM	5114	C	SER E			100.382		1.00 60.98	BBBB
ATOM	5115	Õ	SER E				-10.110	1.00 60.85	BBBB
ATOM	5116	N	CYS E		-15.521		-11.288	1.00 59.83	BBBB
ATOM	5117	CA	CYS E		-14.554		-10.632	1.00 58.66	BBBB
ATOM	5117	C	CYS E		-13.292		-11.444	1.00 59.15	BBBB
ATOM									
	5119	0	CYS E		-13.364		-12.580	1.00 59.93	BBBB
ATOM	5120	CB	CYS E		-15.216		-10.326	1.00 57.17	BBBB
ATOM	5121	SG	CYS E		-16.677	97.045	-9.251	1.00 55.89	BBBB
ATOM	5122	N	GLN E		-12.139		-10.851	1.00 59.35	BBBB
MOTA	5123	CA	GLN E		-10.848		-11.503	1.00 59.71	BBBB
ATOM	5124	CB	GLN E	3 164	-9.736		-10.682	1.00 58.27	BBBB
ATOM	5125	CG	GLN E	164	-9.729	100.262	-10.714	1.00 57.01	BBBB
ATOM	5126	CD	GLN E	3 164	-8.988	100.876	-9.530	1.00 57.67	BBBB
ATOM	5127	OE1	GLN E	3 164	-9.573	101.088	-8.465	1.00 56.73	BBBB
ATOM	5128	NE2	GLN E	3 164	-7.694	101.153	-9.707	1.00 56.75	BBBB
ATOM	5129	С	GLN E	3 164	-10.529	96.593	-11.664	1.00 61.24	BBBB
ATOM	5130	0	GLN E	3 164	-11.181	95.734	-11.064	1.00 60.96	BBBB
ATOM	5131	N	LYS E		-9.532		-12.493	1.00 63.38	BBBB
ATOM	5132	CA	LYS E		-9.106		-12.709	1.00 64.89	BBBB
ATOM	5133	CB	LYS E		-8.288		-13.997	1.00 65.32	BBBB
ATOM	5134	CG	LYS E		-9.071		-15.298	1.00 66.27	BBBB
ATOM	5135	CD	LYS E		-8.150		-16.481	1.00 65.77	BBBB
ATOM	5136	CE	LYS E		-8.851		-17.806	1.00 65.83	BBBB
ATOM	5137	NZ	LYS E		-10.105		-17.858	1.00 65.85	BBBB
	5138		LYS E		-8.226		-11.530	1.00 65.87	BBBB
ATOM	5139	С 0	LYS E		-7.447		-11.025	1.00 65.70	BBBB
ATOM									
ATOM	5140	Ν.	CYS		-8.344		-11.101		BBBB
ATOM	5141	CA	CYS E		-7.551	92.772	-9.983	1.00 67.92	BBBB
ATOM	5142	С	CYS E		-6.088		-10.082	1.00 69.45	BBBB
ATOM	5143	0	CYS E	3 166	-5.673	94.216	-9.555	1.00 71.07	BBBB
ATOM	5144	CB	CYS E		-7.669		-9.881	1.00 66.22	BBBB
ATOM	5145	SG	CYS E		-9.002	90.761		1.00 66.31	BBBB
ATOM	5146	N	ASP E	3 167	-5.311	92.352	-10.757	1.00 69.98	BBBB
ATOM	5147	CA	ASP E	3 167	-3.896	92.598	-10.956	1.00 70.69	BBBB
MOTA	5148	CB	ASP E	3 167	-3.176	92.829	-9.628	1.00.68.80	BBBB
ATOM	5149	CG	ASP E	167	-1.682	93.042	-9.806	1.00 68.71	BBBB
ATOM	5150	OD1	ASP E	3 167	-1.239	94.198	-10.019	1.00 65.57	BBBB
ATOM	5151	OD2	ASP E	3 167	-0.949	92.035	-9.751	1.00 69.41	BBBB
ATOM	5152	С	ASP E	3 167	-3.362		-11.621	1.00 72.58	BBBB
ATOM	5153	Ō	ASP E		-3.899		-11.431	1.00 72.47	BBBB
ATOM	5154	N	PRO E		-2.309		-12.430	1.00 73.71	BBBB
ATOM	5155	CD	PRO E		-1.620		-12.817	1.00 73.48	BBBB
ATOM	5156	CA	PRO E		-1.732		-13.114	1.00 74.58	BBBB
ATOM					-0.534		-13.114	1.00 74.58	BBBB
	5157	CB	PRO E				-13.841	1.00 73.54	BBBB
MOTA	5158	CG	PRO E		-0.992				
ATOM	5159	C	PRO E		-1.323		-12.155	1.00 74.88	BBBB
ATOM	5160	0	PRO E		-1.697		-12.346	1.00 74.50	BBBB
ATOM	5161	N	SER E		-0.575		-11.115	1.00 73.58	BBBB
ATOM	5162	CA	SER E		-0.081		-10.149	1.00 73.22	BBBB
MOTA	5163	CB	SER E		1.108	89.195	-9.391	1.00 73.74	BBBB
MOTA	5164	OG	SER E		0.738	90.378	-8.707	1.00 73.29	BBBB
MOTA	5165	C	SER E		-1.085	88.045	-9.142	1.00 72.62	BBBB
MOTA	5166	0	SER E	169	-0.693	87.640	-8.046	1.00 74.56	BBBB
MOTA	5167	N	CYS E	3 170	-2.365	88.007	-9.496	1.00 70.56	BBBB
ATOM	5168	CA	CYS E	3 170	-3.361	87.484	-8.566	1.00 70.18	BBBB
ATOM	5169	С	CYS E	3 170	-3.776	86.061	-8.896	1.00 71.85	BBBB
ATOM	5170	0	CYS E		-4.064		-10.041	1.00 71.70	BBBB

ATOM	5171	CB	CYS I	3 170	-4.620	88.348	-8.546	1.00 66.51	BBBB
ATOM	5172	SG		3 170	-4.616	89.887	-7.567	1.00 63.03	BBBB
ATOM	5173	И		3 171	-3.817	85.194	-7.881	1.00 73.64	BBBB
ATOM	5174	CD		3 171	-3.238	85.374	-6.538	1.00 74.04	BBBB
ATOM	5175	CA	PRO I	3 171	-4.211	83.801	-8.096	1.00 74.95	BBBB
ATOM	5176	CB	PRO I	3 171	-4.039	83.181	-6.712	1.00 75.59	BBBB
ATOM	5177	CG		3 171	-2.872	83.956		1.00 75.44	
							-6.164		BBBB
MOTA	5178	С		3 171	-5.637	83.684	-8.615	1.00 75.10	BBBB
ATOM	5179	0	PRO I	3 171	-6.597	83.857	-7.863	1.00 74.06	BBBB
ATOM	5180	N	ASN I	3 172	-5.758	83.386	-9.905	1.00 76.34	BBBB
ATOM	5181	CA	ASN I	3 172	-7.055		-10.558	1.00 78.94	BBBB
MOTA	5182	CB		3 172					
					-7.868	82.132	-9.880	1.00 83.79	BBBB
ATOM	5183	CG		3 172	-7.029	80.932	-9.527	1.00 89.66	BBBB
ATOM	5184	OD1	ASN I	3 172	-6.202	80.993	-8.616	1.00 91.12	BBBB
ATOM	5185	ND2	ASN I	3 172	-7.221	79.836	-10.253	1.00 94.21	BBBB
ATOM	5186	С		B 172	-7.850		-10.525	1.00 77.82	BBBB
ATOM	5187	ō		B 172	~9.057		-10.272	1.00 77.75	
ATOM	5188	N							BBBB
				3 173	-7.167		-10.785	1.00 76.34	BBBB
ATOM	5189	CA		B 173	-7.834	86.928	-10.774	1.00 73.69	BBBB
ATOM	5190	С	GLY :	B 173	-8.642	87.116	-9.506	1.00 71.86	BBBB
MOTA	5191	0	GLY 1	B 173	-9.793	87.546	-9.554	1.00 71.57	BBBB
MOTA	5192	N	SER I	B 174	-8.037	86.776	-8.370	1.00 69.87	BBBB
ATOM	5193	CA		B 174	-8.686	86.919	-7.071	1.00 66.85	BBBB
ATOM	5194								
		CB		B 174	-8.626	85.604	-6.300	1.00 66.91	BBBB
MOTA	5195	OG		B 174	-9.423	84.621	-6.927	1.00 67.71	BBBB
ATOM	5196	С	SER I	B 174	-8.002	88.021	-6.270	1.00 64.54	BBBB
ATOM	5197	0	SER I	B 174	-6.805	87.959	-5.995	1.00 64.78	BBBB
ATOM	5198	N	CYS	B 175	-8.767	89.038	-5.901	1.00 61.79	BBBB
ATOM	5199	CA		B 175	-8.214	90.148	-5.147	1.00 59.20	BBBB
ATOM	5200	C		B 175	-9.345			1.00 57.30	
						90.850	-4.409		BBBB
ATOM	5201	0		B 175	-10.495	90.792	-4.840	1.00 57.20	BBBB
MOTA	5202	CB	CYS	B 175	-7.526	91.121	-6.103	1.00 61.28	BBBB
ATOM	5203	SG	CYS	B 175	-8.681	92.016	-7.188	1.00 61.48	BBBB
ATOM	5204	N	TRP !	B 176	-9.028	91.505	-3.298	1.00 54.56	BBBB
ATOM	5205	CA		B 176	-10.052	92.208	-2.539	1.00 52.53	BBBB
ATOM	5206	CB		B 176	-9.745				
						92.174	-1.044	1.00 50.20	BBBB
ATOM	5207	CG		B 176	-9.858	90.826	-0.455	1.00 46.74	BBBB
MOTA	5208	CD2			-11.046	90.218	0.054	1.00 44.30	BBBB
ATOM	5209	CE2	TRP :	B 176	<b>-1</b> 0.697	88.924	0.492	1.00 45.71	BBBB
ATOM	5210	CE3	TRP	B 176	-12.372	90.638	0.183	1.00 41.91	BBBB
ATOM	5211	CD1	TRP	B 176	-8.860	89.906	-0.311	1.00 45.66	BBBB
ATOM	5212		TRP :		-9.355	88.760	0.257	1.00 45.18	BBBB
ATOM	5213		TRP		-11.634	88.044	1.055	1.00 45.11	BBBB
ATOM									
	5214		TRP		-13.303	89.765	0.740	1.00 41.79	BBBB
MOTA	5215		TRP		-12.928	88.484	1.169	1.00 42.58	BBBB
MOTA	5216	С	TRP	B 176	-10.134	93.648	-2.993	1.00 53.37	BBBB
ATOM	5217	0	TRP	B <b>1</b> 76	-11.089	94.361	-2.672	1.00 52.95	BBBB
ATOM	5218	N	GLY	B 177	-9.121	94.073	-3.738	1.00 53.13	BBBB
ATOM	5219	CA		B 177	-9.095	95.431	-4.227	1.00 54.80	BBBB
MOTA	5220			B 177					
		С			-8.099	95.581	-5.352	1.00 55.77	BBBB
ATOM	5221	0		в 177	-7.665	94.591	-5.943	1.00 58.20	BBBB
MOTA	5222	N	ALA	B 178	-7.727	96.819	-5.646	1.00 54.65	BBBB
ATOM	5223	CA	ALA	B 178	-6.782	97.078	-6.710	1.00 55.63	BBBB
ATOM	5224	CB	ALA	B 178	-6.981	98.490	-7.245	1.00 53.85	BBBB
MOTA	5225	C		B 178	-5.372	96.909	-6.172	1.00 56.82	BBBB
ATOM	5226	Ö		B 178	-5.142	97.061	-4.975	1.00 57.25	BBBB
ATOM	5227								
		И		B 179	-4.434	96.586	-7.057	1.00 57.80	BBBB
ATOM	5228	CA		в 179	-3.052	96.423	-6.644	1.00 59.34	BBBB
ATOM	5229	С	GLY	B 179	-2.702	95.021	-6.190	1.00 61.36	BBBB
ATOM	5230	0	GLY	B 179	-3.587	94.227	-5.875	1.00 60.44	BBBB
ATOM	5231	N		B 180	-1.402	94.725	-6.166	1.00 63.78	BBBB
ATOM	5232	CA		B 180	-0.885	93.421	-5.748	1.00 65.34	BBBB
ATOM	5233	CB		B 180	0.643	93.381	-5.903	1.00 67.80	BBBB
ATOM	5234								
		CG		B 180	1.154	93.162	-7.326	1.00 72.35	BBBB
ATOM	5235	CD		B 180	2.670	92.911	-7.387	1.00 75.42	BBBB
MOTA	5236		GLU		3.147	91.983	-6.688	1.00 75.53	BBBB
ATOM	5237	OE2	GLU	B 180	3.379	93.635	-8.136	1.00 75.00	BBBB
ATOM	5238	С	GLU	B 180	-1.242	93.100		1.00 64.75	BBBB
MOTA	5239	0		B 180	-1.814	92.041	-3.991	1.00 63.06	BBBB
ATOM	5240	N		B 181	-0.896	94.030		1.00 63.84	BBBB
ATOM	5241	CA		B 181	-1.138	93.893		1.00 63.45	BBBB
ATOM	5242	CB		B 181	-0.890	95.219		1.00 64.77	BBBB
ATOM	5243	CG		B 181	-1.660	96.362	-1.883	1.00 70.67	BBBB
MOTA	5244	CD	GLU	B 181	-1.490	97.626	-1.076	1.00 74.52	BBBB
MOTA	5245	OE1	GLU	B 181	-0.323	97.999		1.00 77.04	BBBB

ATOM	5246	OE2	GLU	В	181	-2.513	98.241	-0.698	1.00 76.54	BBBB
ATOM.	5247		GLU		181	-2.518	93.399	-1.588	1.00 62.28	BBBB
								-0.417	1.00 62.84	BBBB
MOTA	5248	0	GLU			-2.752	93.085			
ATOM	5249	N	ASN	В	182	-3.428	93.332	-2.557	1.00 59.34	BBBB
MOTA	5250	CA	ASN	В	182	-4.781	92.877	-2.287	1.00 55.78	BBBB
MOTA	5251	CB	ASN	В	182	-5.795	93.970	-2.613	1.00 55.89	BBBB
ATOM			ASN			-5.778	95.087	-1.600	1.00 56.72	BBBB
	5252	ÇG								
ATOM	5253	OD1	ASN	В	182	-5.991	94.858	-0.408	1.00 55.22	BBBB
ATOM	5254	ND2	ASN	В	182	-5.522	96.307	-2.063	1.00 57.94	BBBB
ATOM	5255	С	ASM	R	182	-5.157	91.609	-3.015	1.00 54.35	BBBB
								-3.099	1.00 52.49	BBBB
ATOM	5256	0			182	-6.340	91.272			
ATOM	5257	N	CYS	В	183	-4.163	90.912	-3.557	1.00 53.60	BBBB
ATOM	5258	CA	CYS	В	183	-4.434	89.649	-4.237	1.00 54.26	BBBB
ATOM	5259	C	CYS	P	183	-4.840	88.639	-3.148	1.00 53.75	BBBB
									1.00 52.95	BBBB
ATOM	5260	0			183	-4.294	88.665	-2.034		
ATOM	5261	CB	CYS	В	183	-3.184	89.161	-4.990	1.00 57.43	BBBB
ATOM	5262	SG	CYS	В	183	-2.837	90.009	-6.575	1.00 60.09	BBBB
ATOM	5263	N	GT-N	R	184	-5.800	87.767	-3.448	1.00 50.72	BBBB
						-6.246	86.793	-2.457	1.00 49.47	BBBB
ATOM	5264	CA	GLN		184					
ATOM	5265	CB	GLN	В	184	-7.450	86.018	-2.971	1.00 45.31	BBBB
ATOM	5266	CG	GLN	В	184	-7.836	84.886	-2.061	1.00 44.19	BBBB
ATOM	5267	CD	GLN	R	184	-9.193	84.300	-2.382	1.00 46.25	BBBB
ATOM	5268	OE1			184	-9.613	84.264	-3.541	1.00 46.43	BBBB
										BBBB
MOTA	5269	NE2	GĻN	В	184	-9.881	83.813	-1.354	1.00 44.95	
ATOM	5270	С	GLN	В	184	-5.167	85.803	-2.032	1.00 51.51	BBBB
ATOM	5271	0	GLN	В	184	-4.980	84.777	-2.670	1.00 52.63	BBBB
ATOM	5272	N			185	-4.465	86.115	-0.945	1.00 53.76	BBBB
MOTA	5273	CA	LYS		185	-3.405	85.258	-0.414	1.00 54.66	BBBB
ATOM	5274	CB	LYS	В	185	-2.796	85.922	0.821	1.00 54.75	BBBB
ATOM	5275	CG	LYS	В	185	-2.802	87.439	0.713	1.00 56.71	BBBB
ATOM	5276	CD			185	-2.363	88.156	1.987	1.00 56.19	BBBB
									_	
ATOM	5277	CE	LYS	В	185	-0.860	88.112	2.161	1.00 56.09	BBBB
ATOM	5278	NZ	LYS	В	185	-0.424	89.016	3.254	1.00 55.49	BBBB
ATOM	5279	С	LYS	В	185	-3.995	83.898	-0.038	1.00 54.93	BBBB
ATOM	5280				185	-4.836	83.813	0.851	1.00 55.22	BBBB
ATOM	5281	N	LEU			-3.553	82.839	-0.716	1.00 55.71	BBBB
MOTA	5282	CA	LEU	В	186	-4.061	81.489	-0.455	1.00 56.25	BBBB
ATOM	5283	CB	LEU	В	186	-4.201	80.729	-1.774	1.00 56.20	BBBB
ATOM	5284	CG	LEU			-5.167	81.340	-2.797	1.00 56.90	BBBB
									1.00 56.67	BBBB
MOTA	5285		LEU			-5.042	80.603	-4.123		
ATOM	5286	CD2	LEU	В	186	-6.599	81.272	-2.269	1.00 54.83	BBBB
ATOM	5287	C	LEU	В	186	-3.194	80.677	0.515	1.00 56.05	BBBB
MOTA	5288	0	LEH	B	186	-1.961	80.762	0.482	1.00 55.90	BBBB
						-3.845	79.893	1.375	1.00 55.09	BBBB
MOTA	5289	N	THR							
ATOM	5290	CA	THR	В	187	-3.132	79.068	2.356	1.00 53.96	BBBB
ATOM	5291	CB	THR	В	187	-2.950	79.799	3.710	1.00 52.11	BBBB
MOTA	5292	OG1	THR	В	187	-4.237	80.065	4.287	1.00 48.60	BBBB
MOTA	5293				187	-2.179	81.095	3.533	1.00 49.17	BBBB
ATOM	5294	С			187	-3.812	77.730		1.00 54.65	BBBB
MOTA	5295	0	THR	В	187	-3.455	77.078	3.638	1.00 54.99	BBBB
MOTA	5296	N	LYS	В	188	-4.789	77.323	1.859	1.00 55.34	BBBB
ATOM	5297	CA			188	-5.475	76.049	2.085	1.00 57.04	BBBB
	5298	CB			188	-6.857	76.288	2.689	1.00 54.07	BBBB
ATOM										
MOTA	5299	CG	LYS	В	188	-7.608	75.011	2.984	1.00 53.80	BBBB
ATOM	5300	CD	LYS	В	188	-8.883	75.265	3.757	1.00 53.87	BBBB
ATOM	5301	CE	LYS	В	188	-9.352	73.992	4.452	1.00 55.59	BBBB
ATOM	5302	NZ			188	-10.452	74.213	5.446	1.00 54.67	BBBB
								0.812	1.00 60.26	BBBB
ATOM	5303	С			188	-5.620	75.200			
ATOM	5304	0	LYS	В	188	-5.084	74.091	0.725	1.00 61.19	BBBB
ATOM	5305	N	ILE	В	189	-6.342	75.726	-0.171	1.00 62.83	BBBB
MOTA	5306	CA	TLE	В	189	-6.569	75.021	-1.427	1.00 65.12	BBBB
						-7.563	75.808	-2.327	1.00 66.07	BBBB
ATOM	5307	CB			189				1.00 68.81	
MOTA	5308				189	-7.802	75.051	-3.629		BBBB
ATOM	5309	CG1	ILE	В	189	-8.903	75.989	-1.610	1.00 66.47	BBBB
MOTA	5310				189	-9.716	74.708	-1.460	1.00 65.18	BBBB
	5311	C			189	-5.290	74.734	-2.235	1.00 65.74	BBBB
ATOM									1.00 65.50	BBBB
MOTA	5312	0			189	-5.278	73.838	-3.079		
MOTA	5313	N	ILE	E	190	-4.218	75.481	-1.986	1.00 65.91	BBBB
ATOM	5314	CA	ILF	P	190	-2.973	75.268	-2.726	1.00 66.64	BBBB
ATOM	5315	CB			190	-2.254	76.595	-3.042	1.00 65.23	BBBB
									1.00 64.37	BBBB
MOTA	5316				190	-3.182	77.524	-3.794		
MOTA	5317	CG1	ILE	E	190	-1.754	77.235	-1.740	1.00 63.16	BBBB
MOTA	5318	CD1	ILE	: E	190	-0.634	78.225	-1.939	1.00 60.29	BBBB
ATOM	5319	Ċ			190	-1.979	74.415	-1.947	1.00 68.80	BBBB
ATOM	5320	Ö			190	-0.784	74.403	-2.260	1.00 70.62	BBBB
VIOU	3320	J	TUE		>0	5.764	,4.400			

ATOM	E221	N.T	ava.	_						
	5321	N			191	-2.464	73.696	-0.943	1.00 69.76	BBBB
ATOM	5322	CA			191	-1.581	72.892	-0.112	1.00 69.84	BBBB
ATOM	5323	С	CYS	В	191	-1.097	71.575	-0.699	1.00 71.86	BBBB
ATOM	5324	0			191	-1.800	70.928	-1.475		
ATOM	5325	CB			191				1.00 72.19	BBBB
						-2.246	72.662	1.239	1.00 66.69	BBBB
ATOM	5326	SG			191	-2.546	74.245	2.079	1.00 60.81	BBBB
ATOM	5327	N	ALA	В	192	0.119	71.193	-0.315	1.00 73.83	BBBB
ATOM	5328	CA	ALA	В	192	0.739	69.960	-0.789	1.00 77.08	
ATOM	5329	CB			192					BBBB
ATOM						2.228	69.978	-0.458	1.00 76.70	BBBB
	5330	С			192	0.087	68.694	-0.225	1.00 78.75	BBBB
MOTA	5331	0	ALA	В	192	0.601	68.090	0.714	1.00 79.97	BBBB
ATOM	5332	N	GLN	В	193	-1.044	68.312	-0.815	1.00 80.29	BBBB
ATOM	5333	CA			193	-1.825	67.126	-0.448		
ATOM	5334	CB							1.00 81.69	BBBB
					193	-1.667	66.065	-1.542	1.00 83.02	BBBB
MOTA	5335	ÇG			193	-2.320	64.729	-1.220	1.00 85.81	BBBB
ATOM	5336	CD	GLN	В	193	-2.222	63.737	-2.368	1.00 87.31	BBBB
ATOM	5337	OE1	GLN	В	193	-2.477	62.544	-2.195	1.00 87.40	BBBB
ATOM	5338	NE2	GLN		193	-1.859	64.228	-3.551		
ATOM	5339	C	GLN						1.00 88.28	BBBB
					193	-1.621	66.461	0.922	1.00 81.96	BBBB
ATOM	5340	0	GLN	В	193	-2.560	66.365	1.715	1.00 82.69	BBBB
MOTA	5341	N	GLN	В	194	-0.410	65.987	1.192	1.00 81.39	BBBB
ATOM	5342	CA	GLN	В	194	-0.120	65.310	2.452	1.00 81.20	
ATOM	5343	CB	GLN		194					BBBB
						1.286	64.702	2.404	1.00 83.56	BBBB
ATOM	5344	CG	GLN		194	2.359	65.626	1.854	1.00 86.44	BBBB
MOTA	5345	CD	GLN	В	194	3.673	65.487	2.597	1.00 88.04	BBBB
MOTA	5346	OE1	GLN	В	194	4.159	64.377	2.819	1.00 89.12	BBBB
ATOM	5347	NE2	GLN		194	4.259		2.986		
ATOM	5348						66.617	_	1.00 88.90	BBBB
		C	GLN		194	-0.274	66.127	3.737	1.00 79.78	BBBB
ATOM	5349	0	GLN	В	194	-0.063	65.602	4.834	1.00 81.00	BBBB
ATOM	5350	N	CYS	В	195	-0.638	67.399	3.617	1.00 77.49	BBBB
ATOM	5351	CA	CYS	R	195	-0.812	68.248	4.795		
ATOM	5352	C							1.00 74.25	BBBB
					195	-2.241	68.093	5.317	1.00 73.43	BBBB
ATOM	5353	0	CYS		195	-3.129	67.689	4.570	1.00 73.47	BBBB
MOTA	5354	CB	CYS	В	195	-0.540	69.702	4.427	1.00 72.64	BBBB
ATOM	5355	SG	CYS	В	195	1.047	69.999	3.580	1.00 68.87	BBBB
ATOM	5356	N			196	-2.469				
ATOM							68.413	6.590	1.00 72.91	BBBB
	5357	CA	SER		196	-3.808	68.270	7.178	1.00 71.99	BBBB
ATOM	5358	CB	SER	В	196	-3.723	67.592	8.550	1.00 71.63	BBBB
MOTA	5359	OG	SER	В	196	-3.256	68.494	9.539	1.00 72.43	BBBB
ATOM	5360	C	SER	R	196	-4.594	69.577	7.330	1.00 70.72	
ATOM	5361	0	SER		196					BBBB
						-5.800	69.556	7.593	1.00 69.78	BBBB
MOTA	5362	N	GLY		197	-3.915	70.708	7.176	1.00 68.99	BBBB
ATOM	5363	CA	GLY	В	197	-4.587	71.986	7.304	1.00 68.35	BBBB
ATOM	5364	C	GLY	В	197	-3.849	73.066	6.547	1.00 68.01	BBBB
ATOM	5365	0	GLY		197	-2.982	72.768			
ATOM	5366							5.728	1.00 68.47	BBBB
		N	ARG		198	-4.186	74.320	6.824	1.00 67.24	BBBB
ATOM	5367	CA	ARG	В	198	-3.553	75.454	6.161	1.00 65.80	BBBB
ATOM	5368	CB	ARG	В	198	-3.750	76.722	6.993	1.00 65.04	BBBB
ATOM	5369	CG	ARG	В	198	-5.187	77.216	7.087	1.00 64.08	BBBB
MOTA	5370	CD	ARG			-5.631	77.874			
ATOM	5371							5.791	1.00 64.70	BBBB
		NE	ARG			-6.937	78.515	5.900	1.00 61.44	BBBB
ATOM	5372	CZ	ARG			-8.055	77.877	6.220	1.00 60.87	BBBB
MOTA	5373	NH1	ARG	В	198	-8.030	76.576	6.468	1.00 62.42	BBBB
ATOM	5374	NH2	ARG	В	198	-9.200	78.538	6.293	1.00 60.41	BBBB
MOTA	5375	С	ARG			-2.062				
ATOM	5376						75.226	5.939	1.00 66.11	BBBB
		0	ARG			-1.419	74.489	6.675	1.00 65.99	BBBB
MOTA	5377	N	CYS			<b>-1</b> .523	75.857	4.904	1.00 66.59	BBBB
ATOM	5378	CA	CYS	В	199	-0.108	75.755	4.585	1.00 65.79	BBBB
ATOM	5379	С	CYS	В	199	0.382	77.154	4.251	1.00 67.37	
MOTA	5380	0	CYS							BBBB
						-0.388	78.112	4.309	1.00 67.24	BBBB
MOTA	5381	CB	CYS			0.116	74.816	3.395	1.00 64.09	BBBB
MOTA	5382	SG	CYS			-0.794	75.247	1.883	1.00 56.95	BBBB
MOTA	5383	N	ARG	В	200	1.658	77.275	3.906	1.00 68.25	BBBB
ATOM	5384	CA	ARG			2.231	78.570			
ATOM	5385							3.580	1.00 70.62	BBBB
		CB	ARG			3.324	78.924	4.586	1.00 71.23	BBBB
MOTA	5386	CG	ARG			4.445	77.909	4.622	1.00 74.92	BBBB
ATOM	5387	CD	ARG	В	200	5.479	78.220	5.677	1.00 78.40	BBBB
ATOM	5388	NE	ARG			6.080	79.533	5.488	1.00 81.26	BBBB
ATOM	5389	CZ	ARG							
						7.121	79.977	6.183	1.00 82.96	BBBB
	5390	NH1				7.674	79.202	7.110	1.00 83.76	BBBB
	5391	NH2	ARG	В	200	7.603	81.196	5.959	1.00 82.89	BBBB
ATOM	5392	С	ARG	В	200	2.818	78.526	2.181	1.00 72.45	BBBB
	5393	0	ARG			3.609				
	5394	N					79.390	1.801	1.00 72.80	BBBB
			GLY			2.428	77.512	1.416	1.00 74.24	BBBB
ATOM	5395	CA	GLY	В	201	2.937	77.381	0.065	1.00 77.11	BBBB

ATOM	5396	С	GLY	В	201	2.439	76.130	-0.627	1.00 79.54	BBBB
ATOM	5397	0			201	1.587	75.412	-0.096	1.00 79.87	BBBB
ATOM	5398	N		_	202	2.974	75.867	-1.817	1.00 81.31	BBBB
ATOM ATOM	5399 5400	CA CB			202 202	2.583 2.659	74.699 75.023	-2.597 -4.091	1.00 82.59 1.00 83.79	BBBB BBBB
ATOM	5401	OG			202	1.843	76.140	-4.409	1.00 85.38	BBBB
ATOM	5402	С	SER	В	202	3.463	73.490	-2.281	1.00 82.50	BBBB
ATOM	5403	0			202	3.059	72.347	-2.497	1.00 82.11	BBBB
ATOM	5404	N			203	4.656	73.746	-1.755	1.00 82.48	BBBB
ATOM ATOM	5405 5406	CB.			203	5.593 6.980	72.680 73.280	-1.410 -1.188	1.00 83.92 1.00 83.69	BBBB BBBB
ATOM	5407	OG			203	6.884	74.458	-0.413	1.00 84.12	BBBB
ATOM	5408	C			203	5.182	71.865	-0.179	1.00 84.69	BBBB
MOTA	5409	0			203	4.386	72.321	0.642	1.00 85.38	BBBB
ATOM	5410	N		_	204	5.714	70.634	-0.048	1.00 85.35	BBBB
ATOM ATOM	5411 5412	CD CA			204 204	6.380	69.892 69.735	-1.130	1.00 85.59 1.00 85.26	BBBB BBBB
ATOM	5413	CB			204	5.420 5.892	68.369	1.078 0.573	1.00 85.35	BBBB
ATOM	5414	CG			204	5.838	68.504	-0.924	1.00 85.97	BBBB
MOTA	5415	C	PRO	В	204	6.156	70.145	2.352	1.00 84.90	BBBB
ATOM	5416	0			204	5.819	69.699	3.451	1.00 85.25	BBBB
ATOM	5417	N			205	7.170	70.989	2.195	1.00 83.82	BBBB
ATOM ATOM	5418 5419	CA CB			205 205	7.954 9.370	71.461 71.804	3.329 2.877	1.00 82.49 1.00 81.53	BBBB BBBB
ATOM	5420	OG			205	9.834	70.867	1.927	1.00 82.91	BBBB
ATOM	5421	С			205	7.302	72.721	3.859	1.00 81.72	BBBB
MOTA	5422	0			205	7.589	73.179	4.965	1.00 81.71	BBBB
ATOM	5423	N			206	6.405	73.266	3.050	1.00 80.88	BBBB
ATOM ATOM	5424 5425	CA CB			206 206	5.739 5.665	74.510 75.383	3.378 2.120	1.00 79.42 1.00 80.43	. BBBB BBBB
ATOM	5426	CG	ASP			6.998	76.019	1.778	1.00 82.78	BBBB
ATOM	5427		ASP			7.996	75.277	1.624	1.00 83.77	BBBB
MOTA	5428		ASP			7.052	77.262	1.665	1.00 84.24	BBBB
MOTA	5429	C			206	4.375	74.474	4.039	1.00 77.27	BBBB
ATOM ATOM	5430 5431	O N			206 207	3.571 4.065	75.371 73.470	3.809 4.845	1.00 78.30 1.00 73.87	BBBB
ATOM	5432	CA			207	2.763	73.567	5.461	1.00 70.85	BBBB
ATOM	5433	С	CYS	В	207	2.740	73.687	6.966	1.00 69.49	BBBB
MOTA	5434	0	CYS		207	3.682	73.315	7.665	1.00 69.22	BBBB
ATOM ATOM	5435 5436	CB SG	CYS		207 207	1.802 2.256	72.490 70.748	4.970 5.026	1.00 70.63	BBBB
ATOM	5437	N			208	1.637	74.251	7.439	1.00 67.08	BBBB BBBB
ATOM	5438	CA			208	1.418	74.548	8.843	1.00 65.11	BBBB
MOTA	5439	С	CYS			1.077	73.423	9.792	1.00 64.18	BBBB
ATOM -	5440	-			-208-		72.407	97412"	1.00 62.88	BBBB
ATOM ATOM	5441 5442	CB SG	CYS		208 208	0.326 0.558	75.610 77.027	8.966 7.861	1.00 64.00 1.00 61.78	BBBB BBBB
ATOM	5443	N			209	1.444	73.658	11.050	1.00 62.79	BBBB
ATOM	5444	CA	HIS			1.180	72.734	12.132	1.00 61.21	BBBB
ATOM	5445	CB			209	1.642	73.343	13.455	1.00 62.12	BBBB
ATOM	5446	CG			209	1.420	72.458	14.641	1.00 63.73	BBBB
ATOM ATOM	5447 5448		HIS HIS			2.298 0.163	71.815 72.157	15.449 15.121	1.00 62.90 1.00 63.04	BBBB BBBB
ATOM	5449		HIS			0.277	71.368	16.175	1.00 62.69	BBBB
ATOM	5450	NE2	HIS	В	209	1.561	71.146	16.395	1.00 61.99	BBBB
MOTA	5451	С			209	-0.319	72.511	12.146	1.00 60.28	BBBB
ATOM	5452	0			209	-1.088	73.367	11.714	1.00 61.56	BBBB BBBB
ATOM ATOM	5453 5454	N CA	ASN ASN			-0.731 -2.138	71.353 71.010	12.630 12.683	1.00 58.94 1.00 57.03	BBBB
ATOM	5455	CB	ASN			-2.299	69.678	13.401	1.00 58.12	BBBB
ATOM	5456	CG	ASN			-3.741	69.371	13.722	1.00 59.45	BBBB
MOTA	5457		ASN			-4.552	69.106	12.828	1.00 59.46	BBBB
ATOM	5458		ASN			-4.077	69.420	15.005	1.00 59.85	BBBB
ATOM ATOM	5459 5460	С О			210 210	-3.018 -4.188	72.047 72.210	13.374 13.032	1.00 55.24	BBBB BBBB
ATOM	5461	И			211	-2.448	72.747	14.346	1.00 54.05	BBBB
ATOM	5462	CA	GLN			-3.194	73.723	15.132	1.00 52.44	BBBB
ATOM	5463	CB	GLN			-2.621	73.761	16.552	1.00 50.22	BBBB
ATOM	5464	CG	GLN			-2.835	72.495	17.332	1.00 47.43	BBBB
ATOM ATOM	5465 5466	CD OE1	GLN GLN			-4.271 -4.883	72.313 73.220	17.735 18.291	1.00 47.94 1.00 48.60	BBBB BBBB
ATOM	5467		GLN			-4.822	71.134	17.470	1.00 47.71	BBBB
ATOM	5468	C	GLN			-3.262	75.142	14.574	1.00 52.08	BBBB
MOTA	5469	0	GLN			-4.048	75.961	15.049	1.00 52.42	BBBB
ATOM	5470	N	CYS	В	212	-2.442	75.440	13.578	1.00 51.21	BBBB

ATOM	5471	CA	CYS	3 E	3 212	-2.453	76.763	12.994	1.00 50.26	BBBB
ATOM	5472	C	CYS	; E	3 212	-3.769		12.327	1.00 50.20	
ATOM	5473	0			3 212	-4.307		11.530	1.00 50.41	BBBB
MOTA	5474	CB			3 212	-1.330		11.987	1.00 50.41	BBBB
MOTA	5475	SG			3 212	0.301	76.968	12.776		BBBB
ATOM	5476	N			213	-4.286			1.00 50.39	BBBB
ATOM	5477	CA			213	-5.528	78.806	12.680	1.00 51.96	BBBB
ATOM	5478	CB			213	-6.420		12.106	1.00 52.01	BBBB
ATOM	5479	C			213	-5.124	79.381	13.187	1.00 52.25	BBBB
ATOM	5480	Ö			213		79.902	11.135	1.00 51.79	BBBB
ATOM	5481					-4.136	80.606	11.362	1.00 49.63	BBBB
ATOM		N			214	-5.875	80.028	10.049	1.00 52.64	BBBB
	5482	CA			214	-5.595	81.045	9.044	1.00 54.79	BBBB
ATOM	5483	CB			214	-5.480	82.410	9.700	1.00 54.65	BBBB
MOTA	5484	С			214	-4.333	80.750	8.243	1.00 55.60	BBBB
ATOM	5485	0			214	-4.406	80.575	7.025	1.00 56.74	BBBB
ATOM	5486	И	GLY	В	215	-3.184	80.703	8.918	1.00 55.49	BBBB
ATOM	5487	CA			215	-1.925	80.429	8.234	1.00 54.91	BBBB
ATOM	5488	C			215	-0.710	80.383	9.147	1.00 55.19	BBBB
ATOM	5489	0	GLY	В	215	-0.852	80.364	10.369	1.00 54.27	BBBB
ATOM	5490	N	CYS	В	216	0.489	80.378	8.565	1.00 57.02	BBBB
ATOM	5491	CA	CYS	В	216	1.708	80.319	9.369	1.00 60.29	BBBB
MOTA	5492	С			216	2.982	80.867	8.723	1.00 62.59	BBBB
MOTA	5493	0	CYS	В	216	3.027	81.130	7.525	1.00 64.03	
ATOM	5494	CB			216	1.964	78.878	9.801		BBBB
ATOM	5495	SG			216	2.366	77.756		1.00 59.59	BBBB
ATOM	5496	N			217	4.021	81.016	8.430	1.00 57.68	BBBB
ATOM	5497	CA			217	5.318		9.543	1.00 64.51	BBBB
ATOM	5498	CB			217		81.523	9.101	1.00 66.94	BBBB
ATOM	5499		THR			5.689	82.815	9.830	1.00 67.00	BBBB
ATOM	5500	CG2			217	5.861	82.540	11.228	1.00 66.58	BBBB
ATOM	5501	C	שחוד	D.	217	4.604	83.852	9.651	1.00 66.04	BBBB
ATOM	5502	0				6.425	80.511	9.387	1.00 69.34	BBBB
ATOM	5503	N			217	7.611	80.835	9.297	1.00 68.96	BBBB
ATOM	5504				218	6.025	79.291	9.742	1.00 71.55	BBBB
ATOM		CA			218	6.978	78.237	10.044	1.00 72.15	BBBB
	5505	C	GLY			6.296	76.882	10.021	1.00 73.48	BBBB
ATOM	5506	0			218	5.106	76.800	9.707	1.00 74.14	BBBB
ATOM	5507	И	PRO			7.019	75.792	10.332	1.00 73.86	BBBB
ATOM	5508	CD			219	8.491	75.688	10.344	1.00 73.37	BBBB
ATOM	5509	CA	PRO			6.412	74.458	10.326	1.00 73.94	BBBB
ATOM	5510	CB			219	7.487	73.616	9.665	1.00 73.10	BBBB
ATOM	5511	CG	PRO	В	219	8.725	74.173	10.308	1.00 73.62	BBBB
ATOM	55 <b>1</b> 2	C	PRO	В	219	6.094	73.976	11.744	1.00 73.98	BBBB
ATOM	5513	0	PRO	В	219	5.295	73.056	11.940	1.00 72.68	BBBB
ATOM	5514	N	ARG	В	220	6.724	74.620	12.723	1.00 74.67	BBBB
ATOM	5515	CA.	ARG	B	<sup>-</sup> 220 <sup>-</sup>	6.551	74.273	14.128	1.00 75.55	BBBB
ATOM	5516	CB	ARG	В	220	7.606	74.998	14.972	1.00 76.68	BBBB
ATOM	5517	CG	ARG	В	220	7.881	74.355	16.325	0.01 78.00	BBBB
ATOM	5518	CD	ARG	В	220	8.471	72.961	16.160	0.01 79.20	BBBB
MOTA	5519	NE	ARG	В	220	8.733	72.314	17.442	0.01 80.22	BBBB
MOTA	5520	CZ	ARG	В	220	7.793	71.988	18.324	0.01 80.77	BBBB
MOTA	5521	NH1	ARG			6.519	72.246	18.065	0.01 81.11	BBBB
ATOM	5522		ARG			8.128	71.402	19.465	0.01 81.10	BBBB
ATOM	5523	С			220	5.153	74.580	14.668	1.00 75.60	BBBB
MOTA	5524	0	ARG			4.209	74.811	13.914	1.00 76.09	
ATOM	5525	N	GLU			5.041	74.586	15.991	1.00 75.46	BBBB
ATOM	5526	CA	GLU			3.781	74.828	16.685	1.00 73.40	BBBB
ATOM	5527	CB	GLU			3.647	73.808	17.810	1.00 75.34	BBBB
MOTA	5528	CG	GLU			2.266	73.655	18.383		BBBB
ATOM	5529	CD	GLU			2.240	72.622		1.00 77.59	BBBB
ATOM	5530		GLU	D	221	1.130		19.488	1.00 79.24	BBBB
ATOM	5531	OBI	GLU	D	221		72.193	19.880	1.00 79.13	BBBB
ATOM	5532	C				3.338	72.245	19.965	1.00 79.05	BBBB
ATOM	5533	0	GLU			3.746	76.238	17.262	1.00 70.98	BBBB
ATOM	5534	N	GLU			2.773	76.638	17.898	1.00 70.33	BBBB
ATOM	5535		SER			4.822	76.981	17.042	1.00 68.31	BBBB
ATOM	5536	CA	SER			4.924	78.341	17.533	1.00 66.69	BBBB
ATOM	5537	CB	SER	D	222	6.140	78.475	18.449	1.00 66.78	BBBB
		OG C	SER			7.343	78.246	17.735	1.00 66.39	BBBB
ATOM	5538	C	SER			5.057	79.306	16.356	1.00 66.04	BBBB
ATOM	5539	0	SER			5.494	80.448	16.518	1.00 64.97	BBBB
ATOM	5540	N	ASP			4.683	78.841	15.167	1.00 65.13	BBBB
ATOM	5541	CA	ASP			4.765	79.674	13.972	1.00 63.88	BBBB
ATOM	5542	CB	ASP			5.604	78.978	12.898	1.00 66.53	BBBB
ATOM	5543	CG	ASP			6.979	78.582	13.394	1.00 69.14	BBBB
ATOM	5544		ASP			7.663	79.430	14.010	1.00 68.77	BBBB
ATOM	5545	OD2	ASP	В	223	7.377	77.421	13.158	1.00 71.58	BBBB

ATOM	5546	С	ASP	R	223	3.394	80.015	13.390	1.00 61.34	BBBB
ATOM	5547	0	ASP			3.311	80.553	12.294	1.00 60.65	
	5548						79.697	14.119	1.00 59.27	
ATOM		N	CYS		224	2.327				
ATOM	5549	CA	CYS		224	0.964	79.973	13.661	1.00 57.32	
ATOM	5550	С	CYS		224	0.662	81.468	13.570	1.00 56.08	
MOTA	5551	0	CYS			1.207	82.254	14.347	1.00 56.36	
ATOM	5552	CB	CYS	В	224	-0.056	79.348	14.618	1.00 56.21	. BBBB
ATOM	5553	SG	CYS	В	224	-0.095	77.533	14.684	1.00 52.96	BBBB
MOTA	5554	N	LEU	В	225	-0.200	81.860	12.626	1.00 53.46	BBBB
MOTA	5555	CA	LEU	В	225	-0.596	83.270	12.507	1.00 51.28	BBBB
ATOM	5556	CB	LEU	В	225	-1.332	83.539	11.194	1.00 49.12	BBBB
ATOM	5557	CG	LEU			-0.465	83.623	9.942	1.00 48.71	
ATOM	5558	CD1			225	-1.334	83.716	8.699	1.00 45.89	
ATOM	5559		LEU		225	0.456	84.817	10.068	1.00 47.61	
					225				1.00 47.01	
ATOM	5560	C	LEU			-1.553	83.499	13.664		
ATOM	5561	0	LEU			-1.524	84.522	14.340	1.00 49.52	
ATOM	5562	N	VAL			-2.391	82.499	13.883	1.00 48.99	
ATOM	5563	CA	VAL			-3.371	82.510	14.943	1.00 48.31	BBBB
ATOM	5564	CB	VAL	В	226	-4.625	83.318	14.514	1.00 46.91	BBBB
ATOM	5565	CG1	VAL	В	226	-5.267	82.711	13.291	1.00 47.58	BBBB
ATOM	5566	CG2	VAL	В	226	-5.606	83.368	15.644	1.00 50.56	BBBB
ATOM	5567	С	VAL	В	226	-3.702	81.033	15.237	1:00 49.11	BBBB
ATOM	5568	0	VAL	В	226	-3.491	80.156	14.385	1.00 48.92	BBBB
ATOM	5569	N	CYS		227	-4.203	80.766	16.442	1.00 48.11	
ATOM	5570	CA	CYS		227	-4.526	79.411	16.888	1.00 46.37	
ATOM	5571	C	CYS		227	-5.964	78.969	16.613	1.00 46.96	
ATOM	5572	0	CYS		227	-6.878	79.789	16.603	1.00 46.90	
ATOM	5573	CB	CYS		227	-4.270	79.291	18.400	1.00 47.58	
ATOM	5574	SG	CYS		227	-2.575	79.624	19.011	1.00 45.18	
ATOM	5575	N	ARG		228	-6.151	77.665	16.408	1.00 46.74	
ATOM	5576	CA	ARG	В	228	-7.466	77.074	16.167	1.00 46.89	BBBB
MOTA	5577	CB	ARG	В	228	-7.336	75.711	15.491	1.00 49.25	BBBB
ATOM	5578	CG	ARG	В	228	-7.508	75.679	13.990	1.00 52.88	BBBB
ATOM	5579	CD	ARG	В	228	-7.754	74.237	13.558	1.00 57.98	BBBB
ATOM	5580	NE	ARG	В	228	-8.904	73.686	14.274	1.00 62.81	BBBB
ATOM	5581	CZ	ARG	В	228	-10.173	73.986	14.001	1.00 65.29	BBBB
ATOM	5582		ARG			-10.458	74.823	13.009	1.00 65.88	
ATOM	5583		ARG		228	-11.158	73.489	14.747	1.00 65.20	
ATOM	5584	C	ARG		228	-8.201	76.871	17.489	1.00 47.22	
ATOM	5585	0	ARG		228	-9.403	77.090	17.570	1.00 48.08	
ATOM	5586	N	LYS		229	-7.485	76.418	18.517	1.00 47.70	
ATOM	5587	CA	LYS		229	-8.092	76.204	19.837	1.00 49.08	
MOTA	5588	CB	LYS			-8.138	74.717	20.202	1.00 50.16	
MOTA	5589	CG	LYS			-8.970	73.840	19.271	1.00 53.15	
ATOM:	5590	CD			-229-	-97088	72.424	19.836	1.00-56:15	BBBB
ATOM	5591	CE	LYS	В	229	-9.754	71.454	18.866	1.00 57.64	BBBB
MOTA	5592	NZ	LYS	В	229	-9.711	70.042	19.375	1.00 56.94	BBBB
ATOM	5593	С	LYS	В	229	-7.360	76.967	20.941	1.00 48.38	BBBB
MOTA	5594	0	LYS	В	229	-7.409	78.195	20.979	1.00 49.78	BBBB
ATOM	5595	N	PHE			-6.669	76.261	21.828	1.00 46.36	
ATOM	5596	CA			230	-5.983	76.948	22.918	1.00 46.64	
ATOM	5597	CB			230	-5.639	75.983	24.058	1.00 43.74	
ATOM	5598	CG			230	-6.834	75.379	24.716	1.00 41.30	
ATOM	5599		PHE			-7.354 -7.471	74.160	24.267 25.752	1.00 40.09	
ATOM	5600		PHE			-7.471	76.039		1.00 36.60	
ATOM	5601		PHE			-8.498	73.609	24.842	1.00 37.80	
ATOM	5602	CE2	PHE			-8.618	75.499	26.334	1.00 39.34	
MOTA	5603	CZ	PHE	В	230	-9.133	74.275	25.874	1.00 39.20	
ATOM .	5604	С	PHE	В	230	-4.719	77.677	22.536	1.00 47.87	BBBB
MOTA	5605	0	PHE	В	230	-4.120	77.418	21.498	1.00 48.54	BBBB
MOTA	5606	N	ARG	В	231	-4.327	78.600	23.404	1.00 50.85	BBBB
ATOM	5607	CA	ARG			-3.108	79.362	23.230	1.00 55.68	BBBB
ATOM	5608	CB	ARG			-3.407	80.850	23.057	1.00 58.01	
ATOM	5609	CG	ARG			-2.159	81.695	22.793	1.00 63.59	
ATOM	5610	CD	ARG			-2.362	83.150	23.208	1.00 68.98	
ATOM	5611	NE	ARG			-3.473	83.783	22.499	1.00 74.41	
							84.950	22.841	1.00 74.41	
ATOM	5612	CZ	ARG			-4.017				
ATOM	5613		ARG			-3.559	85.620	23.892	1.00 77.43	
ATOM	5614		ARG			-5.013	85.455	22.121	1.00 78.28	
ATOM	5615	C	ARG			-2.264	79.152	24.492	1.00 57.61	
ATOM	5616	0	ARG			-2.659	79.549	25.591	1.00 57.75	
ATOM	5617	N	ASP			-1.122	78.491	24.332	1.00 59.15	
ATOM	5618	CA	ASP			-0.213	78.244	25.440	1.00 59.97	
ATOM	5619	CB	ASP	В	232	0.201	76.777	25.484	1.00 61.38	
ATOM	5620	CG	ASP	В	232	1.000	76.438	26.724	1.00 59.85	BBBB
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ATOM	5621				232	0.673	76.994	27.788	1.00 58.80	BBBB
ATOM	5622		ASI	? E	232	1.935	75.612		1.00 60.10	BBBB
ATOM	5623	C	ASI			1.001	79.121	25.202	1.00 60.54	BBBB
MOTA	5624	0			232	1.983	78.699		1.00 59.08	BBBB
ATOM ATOM	5625 5626	N CA			233	0.904	80.355		1.00 62.13	BBBB
ATOM	5627	CB			233	1.953	81.350		1.00 62.66	BBBB
ATOM	5628	CG			233	3.224 3.050	80.930	26.279	1.00 65.57	BBBB
ATOM	5629	CD	GLU			2.230	80.774 81.898	27.798 28.422	1.00 69.23	BBBB
ATOM	5630	OE1			233	0.991	81.898	28.242	1.00 71.92 1.00 74.72	BBBB BBBB
ATOM	5631	OE2	GLU	J B	233	2.818	82.784	29.083	1.00 72.23	BBBB
ATOM	5632	С			233	2.249	81.559	24.051	1.00 61.66	BBBB
ATOM	5633	0			233	1.455	82.169	23.335	1.00 60.89	BBBB
ATOM	5634	N			234	3.377	81.034	23.590	1.00 60.40	BBBB
ATOM ATOM	5635 5636	CA CB			234	3.761	81.198	22.201	1.00 58.53	BBBB
ATOM	5637	C			234	5.243	81.492	22.114	1.00 56.71	BBBB
ATOM	5638	Ö			234	3.413 3.890	80.016 79.942	21.300	1.00 58.73	BBBB
ATOM	5639	N			235	2.585	79.942	20.171 21.769	1.00 60.50	BBBB
ATOM	5640	CA			235	2.234	77.960	20.916	1.00 56.70 1.00 55.07	BBBB BBBB
ATOM	5641	CB	THR	В	235	2.852	76.638	21.425	1.00 55.35	BBBB
ATOM	5642	OG1			235	2.292	76.306	22.702	1.00 56.07	BBBB
ATOM	5643	CG2			235	4.358	76.764	21.536	1.00 55.75	BBBB
ATOM	5644	C			235	0.735	77.739	20.790	1.00 53.05	BBBB
ATOM ATOM	5645 5646	O M	THR			-0.050	78.218	21.604	1.00 53.61	BBBB
ATOM	5647	n Ca			236 236	0.344	77.003	19.761	1.00 50.02	BBBB
ATOM	5648	C			236	-1.055 -1.196	76.694	19.560	1.00 48.29	BBBB
ATOM	5649	o			236	-0.535	75.220 74.388	19.902	1,00 46.55	BBBB
MOTA	5650	CB			236	-1.442	76.972	19.304 18.108	1.00 46.23 1.00 50.12	BBBB
ATOM	5651	SG			236	-1.415	78.740	17.616	1.00 30.12	BBBB
ATOM	5652	N			237	-2.050	74.899	20.870	1.00 45.86	BBBB BBBB
ATOM	5653	CA	LYS	В	237	-2.226	73.516	21.314	1.00 44.21	BBBB
ATOM	5654	CB			237	-1.652	73.358	22.720	1.00 43.64	BBBB
ATOM	5655	CG			237	-0.185	73.730	22.863	1.00 44.01	BBBB
ATOM	5656	CD			237	0.266	73.463	24.283	1.00 45.77	BBBB
ATOM ATOM	5657	CE	LYS			1.682	72.923	24.345	1.00 47.29	BBBB
ATOM	5658 5659	NZ C	LYS		237	2.709	73.964	24.085	1.00 49.55	BBBB
ATOM	5660	0			237 237	-3.659 -4.604	72.997	21.325	1.00 44.70	BBBB
ATOM	5661	N	ASP		238	-3.808	73.752 71.693	21.554 21.099	1.00 46.16 1.00 44.77	BBBB
ATOM	5662	CA			238	-5.115	71.033	21.095	1.00 44.77	BBBB BBBB
ATOM	5663	CB	ASP	В	238	-4.994	69.602	20.610	1.00 47.46	BBBB
ATOM	5664	CG	ASP		238	-6.345	68.899	20.518	1.00 50.83	BBBB
ATOM	5665				238	-7.139	69.253	19.615	1.00 52.39	BBBB
ATOM	5666	OD2			238	-6.612	67.999	21.352	1.00 51.08	BBBB
ATOM ATOM	5667 5668	С 0	ASP		238	-5.706	71.074	22.502	1.00 43.16	BBBB
ATOM	5669	И			238 239	-6.925	71.125	22.672	1.00 43.11	BBBB
ATOM	5670	CA			239	-4.840 -5.276	71.023 71.093	23.510	1.00 41.20	BBBB
ATOM	5671	CB			239	-5.681	69.719	24.901 25.477	1.00 42.58 1.00 43.94	BBBB
ATOM	5672	OG1				-4.545	68.851	25.487	1.00 44.73	BBBB BBBB
MOTA	5673	CG2	THR	В	239	-6.796	69.092	24.653	1.00 45.02	BBBB
ATOM	5674	C	THR	В	239	-4.133	71.633	25.744	1.00 42.78	BBBB
ATOM	5675	0			239	-2.971	71.493	25.377	1.00 42.53	BBBB
ATOM	5676	N			240	-4.457	72.269	26.865	1.00 43.53	BBBB
ATOM ATOM	5677	CA			240	-3.418	72.801	27.745	1.00 43.19	BBBB
ATOM	5678 5679	C O			240	-2.670	71.654	28.417	1.00 43.24	BBBB
ATOM	5680				240 240	-3.276	70.662	28.842	1.00 41.29	BBBB
ATOM	5681				240	-4.031 -4.778	73.692 75.223	28.827	1.00 43.38	BBBB
ATOM	5682	N			241	-1.338	71.759	28.198 28.506	1.00 42.36	BBBB
ATOM	5683	CD			241	-0.444	72.761	27.909	1.00 42.88 1.00 43.66	BBBB BBBB
MOTA	5684	CA	PRO			-0.575	70.686	29.150	1.00 43.00	BBBB
MOTA	5685	CB	PRO	В	241	0.871	71.199	29.093	1.00 43.29	BBBB
ATOM	5686	CG	PRO	В	241	0.743	72.685	28.823	1.00 43.72	BBBB
ATOM	5687		PRO			-1.083	70.431	30.575	1.00 42.51	BBBB
ATOM	5688		PRO			-1.073	71.329	31.412	1.00 41.55	BBBB
ATOM	5689		PRO			-1.542	69.193	30.858	1.00 43.17	BBBB
ATOM ATOM	5690 5691		PRO			-1.541	68.034	29.950	1.00 40.97	BBBB
ATOM ATOM	5691 5692		PRO PRO			-2.068 -2.514	68.809	32.177	1.00 42.23	BBBB
ATOM	5693		PRO			-2.514 -2.697	67.359	31.972	1.00 40.84	BBBB
ATOM	5694		PRO			-1.056	67.239 68.935	30.481	1.00 40.75	BBBB
ATOM	5695		PRO			0.141	68.750	33.307 33.108	1:00 42.92 1.00 42.53	BBBB
				-				JJ. 100	4.00 4c.33	BBBB

ATOM	5696	N	LEU	R	243	-1.556	69.252	34.495	1.00 44.28	BBBB
ATOM	5697	CA	LEU			-0.718	69.402	35.671	1.00 46.48	BBBB
ATOM	5698	CB	LEU		243	-1.544	69.960	36.828	1.00 44.23	BBBB
ATOM	5699	CG	LEU			-2.343	71.232	36.554	1.00 44.79	BBBB
ATOM	5700	CD1				-3.098	71.613	37.814	1.00 43.50	BBBB
ATOM	5701	CD2				-1.427	72.362	36.110	1.00 44.07	BBBB
ATOM	5701	C	LEU			-0.142	68.042	36.062	1.00 48.57	BBBB
						0.964	67.946	36.599	1.00 49.95	BBBB
ATOM	5703	0	LEU					35.786	1.00 49.47	BBBB
ATOM	5704	N	MET			-0.906	66.992			
MOTA	5705	CA	MET			-0.497	65.630	36.095	1.00 49.88	BBBB
ATOM	5706	CB	MET			-1.458	65.027	37.130	1.00 50.96	BBBB
MOTA	5707	CG	MET	В	244	-1.260	65.513	38.565	1.00 50.70	BBBB
ATOM	5708	SD	MET	В	244	-2.735	65.319	39.636	1.00 47.09	BBBB
ATOM	5709	CE	MET	В	244	-2.927	67.030	40.259	1.00 40.15	BBBB
ATOM	5710	С	MET	В	244	-0.493	64.753	34.844	1.00 49.49	BBBB
ATOM	5711	0	MET	В	244	-1.376	64.872	34.002	1.00 51.23	BBBB
MOTA	5712	N	LEU	В	245	0.501	63.877	34.724	1.00 48.70	BBBB
ATOM	5713	CA			245	0.576	62.945	33.599	1.00 48.07	BBBB
ATOM	5714	CB			245	1.733	63.287	32.659	1.00 48.96	BBBB
ATOM	5715	CG			245	1.588	64.478	31.701	1.00 50.29	BBBB
ATOM	5716	CD1				2.905	64.696	30.969	1.00 47.80	BBBB
ATOM	5717	CD2			245	0.463	64.223	30.705	1.00 48.67	BBBB
ATOM					245	0.764	61.529	34.124	1.00 47.56	BBBB
	5718	C					61.274	34.978	1.00 47.72	BBBB
ATOM	5719	0			245	1.611			1.00 47.72	BBBB
ATOM	5720	N			246	-0.039	60.608	33.612		
ATOM	5721	CA			246	0.030	59.209	34.021	1.00 46.73	BBBB
ATOM	5722	CB			246	-1.071	58.401	33.324	1.00 44.24	BBBB
ATOM	5723	CG			246	-1.218	56.967	33.791	1.00 43.36	
MOTA	5724	CD1	TYR	В	246	-1.702	56.666	35.064	1.00 43.04	BBBB
MOTA	5725	CE1	TYR	В	246	-1.923	55.352	35.466	1.00 43.28	BBBB
ATOM	5726	CD2	TYR	В	246	-0.942	55.912	32.935	1.00 44.22	BBBB
ATOM	5727	CE2	TYR	В	246	-1.154	54.594	33.325	1.00 44.67	BBBB
ATOM	5728	CZ	TYR	В	246	-1.653	54.321	34.587	1.00 44.87	BBBB
ATOM	5729	ОН			246	-1.924	53.018	34.940	1.00 45.39	BBBB
ATOM	5730	С			246	1.383	58.618	33.662	1.00 46.12	BBBB
ATOM	5731	ō			246	1.968	58.956	32.637	1.00 46.43	BBBB
ATOM	5732	N			247	1.884	57.739	34.518	1.00 45.77	BBBB
					247	3.151	57.088	34.252	1.00 47.24	BBBB
ATOM	5733	CA			247	4.068	57.178	35.460	1.00 46.38	BBBB
ATOM	5734	CB				5.446	56.663	35.160	1.00 46.87	BBBB
MOTA	5735	CG			247			34.539	1.00 46.47	BBBB
MOTA	5736				247	5.601	55.605		1.00 45.47	BBBB
ATOM	5737				247	6.463	57.404	35.588	1.00 48.63	BBBB
MOTA	5738	С			247	2.825	55.631	33.966		BBBB
MOTA	5739	0			247	2.606	54.851	34.882	1.00 49.57	
MOTA	5740	N			248	2.799	55.244	32.685	1.00 50.77	BBBB
MOTA	5741	CD			248	3.387	56.004	31.568	1.00 51.00	BBBB
ATOM	5742	CA			248	2.485	53.868	32.271	1.00 52.09	BBBB
ATOM	5743	CB			248	2.727	53.902	30.764	1.00 51.05	BBBB
MOTA	5744	CG	PRO	В	248	3.853	54.902	30.643		BBBB
ATOM	5745	C	PRO	В	248	3.307	52.780	32.967	1.00 53.08	BBBB
MOTA	5746	0	PRO	В	248	2.800	51.697	33.267	1.00 52.68	BBBB
ATOM	5747	N	THR	В	249	4.573	53.076	33.225	1.00 53.08	BBBB
ATOM	5748	CA	THR	В	249	5.446	52.115	33.873	1.00 53.89	BBBB
MOTA	5749	CB			249	6.917	52.541	33.725	1.00 54.85	BBBB
ATOM	5750	OG1	THR	В	249	7.276	52.534	32.338	1.00 53.83	BBBB
MOTA	5751	CG2	THR	В	249	7.826	51.587	34.479	1.00 56.78	BBBB
MOTA	5752	C			249	5.121	51.927	35.356	1.00 53.29	BBBB
ATOM	5753	ō			249	4.811	50.820	35.800	1.00 54.88	BBBB
MOTA	5754	N			250	5.179		36.111	1.00 51.08	BBBB
ATOM	5755	CA			250	4.922	52.996	37.542	1.00 48.60	BBBB
	5756	CB			250	5.602	54.185		1.00 48.51	BBBB
ATOM					250	4.992	55.393	37.730	1.00 50.91	BBBB
ATOM	5757 5750					7.068	54.215	_	1.00 46.51	BBBB
ATOM	5758				250				1.00 49.02	BBBB
ATOM	5759	C			250	3.448	53.007		1.00 47.95	BBBB
ATOM	5760	0			250	3.128	52.993	39.134		BBBB
ATOM	5761	N			251	2.558	53.034	36.950	1.00 49.53	BBBB
MOTA	5762	CA			251	1.108	53.052	37.181	1.00 48.84	
MOTA	5763	CB			251	0.615	51.711	37.731	1.00 48.26	BBBB
MOTA	5764	CG			251	0.714	50.569	36.759	1.00 48.72	BBBB
MOTA	5765				251	1.936	49.955	36.505	1.00 48.09	BBBB
MOTA	5766	CE1	TYF	È	251	2.040	48.917		1.00 49.48	BBBB
ATOM	5767				251	-0.410	50.113	36.074	1.00 46.89	BBBB
ATOM	5768				251	-0.317	49.074			BBBB
ATOM	5769	CZ			251	0.912				BBBB
ATOM	5770	ОН			251	1.028	47.446		1.00 51.79	BBBB
	_				_	_				

ATOM	5771	С	TYR B	251	0.616	54.140	30 110	1 00 40 00	5555
ATOM	5772	ō					38.118	1.00 49.90	BBBB
			TYR B		-0.427	53.980	38.743	1.00 51.56	BBBB
MOTA	5773	N	GLN B		1.356	55.233	38.242	1.00 50.65	BBBB
MOTA	5774	CA	GLN B	252	0.920	56.319	39.107	1.00 51.46	BBBB
ATOM	5775	CB	GLN B	252	1.793	56.376	40.362	1.00 52.30	
ATOM	5776	CG	GLN B		3.266				BBBB
ATOM	5777					56.604	40.101	1.00 56.02	BBBB
		CD	GLN B		4.076	56.642	41.387	1.00 60.02	BBBB
ATOM	5778		GLN B		3.779	57.418	42.300	1.00 62.84	BBBB
ATOM	5779	NE2	GLN B	252	5.107	55.801	41.468	1.00 61.37	BBBB
ATOM	5780	С	GLN B		0.923	57.675			
ATOM	5781	ō					38.378	1.00 51.97	BBBB
			GLN B		1.367	57.782	37.230	1.00 50.68	BBBB
ATOM	5782	N	MET B	253	0.414	58.705	39.048	1.00 52.19	BBBB
ATOM	5783	CA	MET B	253	0.346	60.046	38.472	1.00 52.86	BBBB
ATOM	5784	CB	MET B	253	-0.899	60.763	38.984	1.00 53.39	
ATOM	5785	CG	MET B						BBBB
					-2.188	60.333	38.343	1.00 54.72	BBBB
ATOM	5786	SD	MET B		-2.273	60.878	36.652	1.00 59.93	BBBB
ATOM	5787	CE	MET B	253	-2.665	59.403	35.879	1.00 55.60	BBBB
ATOM	5788	С	MET B	253	1.559	60.908	38.791	1.00 52.95	
ATOM	5789	0	MET B		1.861				BBBB
ATOM	5790					61.141	39.952	1.00 54.22	BBBB
		N	ASP B		2.244	61.394	37.763	1.00 53.40	BBBB
ATOM	5791	CA	ASP B	254	3.404	62.252	37.969	1.00 54.52	BBBB
ATOM	5792	CB	ASP B	254	4.492	61.940	36.948	1.00 53.26	BBBB
ATOM	5793	CG	ASP B	254	5.189	60.640	37.234		
ATOM	5794		ASP B					1.00 53.98	BBBB
					5.980	60.186	36.379	1.00 51.42	BBBB
MOTA	5795		ASP B		4.943	60.077	38.323	1.00 54.06	BBBB
MOTA	5796	С	ASP B	254	3.020	63.717	37.844	1.00 56.59	BBBB
ATOM	57 97	0	ASP B	254	1.983	64.054	37.281	1.00 57.87	BBBB
ATOM	5798	N	VAL B		3.854				
ATOM	5799	CA				64.589	38.392	1.00 58.33	BBBB
			VAL B		3.605	66.011	38.304	1.00 58.74	BBBB
ATOM	580 <b>0</b>	CB	VAL B		4.284	66.772	39.439	1.00 58.39	BBBB
ATOM	5801	CG1	VAL B	255	4.436	68.234	39.058	1.00 59.18	BBBB
ATOM	5802	CG2	VAL B	255	3.463	66.651			
ATOM	5803	C	VAL B				40.701	1.00 56.92	BBBB
					4.200	66.470	36.987	1.00 60.51	BBBB
ATOM	5804	0	VAL B		5.311	66.078	36.634	1.00 61.70	BEBB
ATOM	5805	N	ASN B	256	3.452	67.282	36.251	1.00 61.41	BBBB
ATOM	5806	CA	ASN B	256	3.926	67.794	34.976	1.00 62.26	
ATOM	5807	CB	ASN B		2.791	67.816			BBBB
ATOM	5808	CG					33.954	1.00 60.88	BBBB
			ASN B		3.257	68.226	32.570	1.00 59.10	BBBB
ATOM	5809		ASN B		4.366	68.735	32.399	1.00 58.38	BBBB
ATOM	5810	ND2	ASN B	256	2.403	68.018	31.575	1.00 56.56	BBBB
ATOM	5811	С	ASN B	256	4.442	69.206	35.209	1.00 64.11	BBBB
ATOM	5812	0	ASN B		3.676				
ATOM	5813					70.122	35.499	1.00 64.54	BBBB
		N	PRO B		5.760	69.395	35.106	1.00 65.81	BBBB
ATOM	5814	CD	PRO B	257	6.783	68.406	34.7 <b>1</b> 6	1.00 66.39	BBBB
MOTA	5815	CA	PRO B	257	6.356	70.717	35.313	1.00 66.91	BBBB
ATOM	5816	CB	PRO B	257	7.852	70.420	35.272	1.00 67.97	BBBB
ATOM	5817	CG	PRO B		7.925	69.285			
ATOM	5818	C					34.267	1.00 67.03	BBBB
			PRO B		5.922	71.709	34.234	1.00 67.21	BBBB
MOTA	5819	0	PRO B	257	6.143	72.910	34.358	1.00 66.40	BBBB
ATOM	5820	N	GLU B	258	5.308	71.189	33.174	1.00 67.99	BBBB
ATOM	5821	CA	GLU B	258	4.831	72.012		1.00 68.23	BBBB
MOTA	5822	CB	GLU B		5.107				
ATOM	5823					71.310	30.736	1.00 70.73	BB <b>BB</b>
		CG	GLU B		6.543	70.838	30.580	1.00 77.36	BBBB
ATOM	5824	CD	GLU B		7.551	71.967	30.732	1.00 80.96	BBBB
ATOM	5825	OE1	GLU B	258	7.591	72.853	29.849	1.00 82.48	BBBB
ATOM	5826	OE2	GLU B	258	8.300	71.972	31.737	1.00 82.52	
ATOM	5827	С	GLU B						BBBB
ATOM	5828				3.329	72.238	32.223	1.00 66.09	BBBB
		0	GLU B		2.676	72.792	31.346	1.00 66.48	BBBB
ATOM	5829	N	GLY B		2.793	71.800	33.354	1.00 64.22	BBBB
ATOM	5830	ÇA	GLY B	259	1.374	71.939	33.619	1.00 61.97	BBBB
ATOM	5831	С	GLY B	259	0.873	73.364	33.625	1.00 60.36	BBBB
ATOM	5832	0	GLY B						
ATOM					1.533	74.277	34.121	1.00 59.77	BBBB
	5833	N	LYS B		-0.320	73.543	33.075	1.00 58.66	BBBB
ATOM	5834	CA	LYS B		-0.943	74.851	32.987	1.00 56.83	B <b>BB</b> B
ATOM	5835	CB	LYS B	260	-0.711	75.435	31.596	1.00 57.56	BBBB
ATOM	5836	CG	LYS B		0.752	75.523	31.204	1.00 57.07	
ATOM	5837	CD	LYS B						BBBB
ATOM					1.460	76.588	32.008	1.00 57.12	BBBB
	5838	CE	LYS B		1.191	77.972	31.459	1.00 58.20	BBBB
MOTA	5839	NZ	LYS B	260	1.942	78.221	30.191	1.00 59.08	BBBB
ATOM	5840	С	LYS B	260	-2.431	74.684	33.225	1.00 55.76	BBBB
MOTA	5841	ō	LYS B		-2.950				
ATOM	5842					73.572	33.189	1.00 55.76	BBBB
		N	TYR B		-3.117	75.790	33.476	1.00 54.61	BBBB
ATOM	5843	CA	TYR B		-4.550	75.743	33.707	1.00 52.33	BBBB
MOTA	5844	CB	TYR B	261	-4.920	76.554	34.948	1.00 53.78	BBBB
ATOM	5845	CG	TYR B	261	-4.393	75.989	36.247	1.00 55.65	BBBB

ATOM	5846	CD1	TYR B	261		-3.053	76.137	36.609	1.00 56.77	BBBB
ATOM	5847	CE1	TYR B			-2.573	75.637	37.820	1.00 56.09	BBBB
ATOM	5848	CD2	TYR B			-5.243	75.324	37.129	1.00 56.41	BBBB
ATOM	5849	CE2	TYR B			-4.776	74.824	38.340	1.00 56.86	BBBB
ATOM	5850	CZ	TYR B		*	-3.443	74.982	38.680	1.00 57.42	BBBB
ATOM	5851	ОН	TYR B	261		-2.988	74.478	39.880	1.00 58.93	BBBB
ATOM	5852	С	TYR B	261		-5.309	76.276	32.499	1.00 49.86	BBBB
ATOM	5853	0	TYR B	261		-4.841	77.173	31.792	1.00 46.77	BBBB
ATOM	5854	N	SER B	262		-6.488	75.712	32.270	1.00 49.00	BBBB
ATOM	5855	CA	SER B			-7.315	76.119	31.141	1.00 48.72	BBBB
ATOM	5856	CB	SER B			-7.998	74.898	30.530	1.00 46.78	BBBB
									1.00 46.67	BBBB
ATOM	5857	OG	SER B			-7.034	74.086	29.894	-	
MOTA	5858	С	SER B			-8.350	77.184	31.480	1.00 47.19	BBBB
MOTA	5859	0	SER B			-9.329	76.926	32.180	1.00 47.58	BBBB
MOTA	5860	N	PHE B	263		-8.108	78.386	30.972	1.00 45.47	BBBB
ATOM	5861	CA	PHE B	263		-8.994	79.519	31.180	1.00 44.56	BBBB
ATOM	5862	CB	PHE B	263		-8.238	80.658	31.860	1.00 44.19	BBBB
ATOM	5863	CG	PHE B	263		-9.106	81.825	32.228	1.00 43.21	BBBB
ATOM	5864	CD1	PHE B			-10.315	81.624	32.892	1.00 43.05	BBBB
ATOM	5865		PHE B			-8.696	83.127	31.954	1.00 42.03	BBBB
ATOM	5866	CE1	PHE B			-11.099	82.706	33.281	1.00 43.84	BBBB
			PHE B						1.00 40.54	BBBB
ATOM	5867	CE2				-9.470	84.211	32.339		
ATOM	5868	CZ	PHE B			-10.671	84.005	33.003	1.00 42.12	BBBB
MOTA	5869	С	PHE B	263		-9.501	79.975	29.814	1.00 44.30	BBBB
ATOM	5870	0	PHE B	263		-8.771	80.615	29.046	1.00 42.53	BBBB
ATOM	5871	N	GLY B	264		-10.748	79.622	29.517	1.00 43.88	BBBB
ATOM	5872	CA	GLY B	264		-11.337	79.981	28.243	1.00 44.89	BBBB
ATOM	5873	С	GLY B	264		-10.572	79.361	27.093	1.00 45.67	BBBB
ATOM	5874	ō	GLY B			-10.622	78.155	26.876	1.00 47.30	BBBB
ATOM	5875	N	ALA B			-9.846	80.181	26.353	1.00 45.86	BBBB
ATOM	5876	CA	ALA B			-9.091	79.672	25.232	1.00 46.66	BBBB
ATOM	5877	CB	ALA B			-9.541	80.348	23.948	1.00 46.67	BBBB
ATOM	5878	С	ALA B			-7.611	79.893	25.452	1.00 47.35	BBBB
MOTA	5879	0	ALA B	265		-6.845	80.017	24.499	1.00 47.85	BBBB
ATOM	5880	N	THR B	266		-7.202	79.948	26.711	1.00 47.55	BBBB
MOTA	5881	CA	THR B	266		-5.785	80.131	27.005	1.00 48.77	BBBB
ATOM	5882	CB	THR B	266		-5.493	81.552	27.487	1.00 49.28	BBBB
ATOM	5883	OG1				-6.321	81.839	28.620	1.00 50.27	BBBB
ATOM	5884	CG2				-5.749	82.554	26.379	1.00 47.17	BBBB
			THR B			-5.289	79.166	28.076	1.00 48.27	BBBB
ATOM	5885	C								BBBB
ATOM	5886	0	THR E			-6.075	78.602	28.842	1.00 47.66	
ATOM	5887	N	CYS E			-3.974	78.986	28.115	1.00 47.76	BBBB
ATOM	5888	CA	CYS E	267		-3.341	78.109	29.093	1.00 48.01	BBBB
MOTA	5889	С	CYS E	267		-2.544	78.982	30.046	1.00 48.22	BBBB
ATOM	5890	0	CYS E	267		-1.453	79.458	29.711	1.00 46.07	BBBB
ATOM	5891	CB	CYS B	267		-2.416	77.100	28.398	1.00 46.41	BBBB
MOTA	5892	SG	CYS B			-3.257	76.075	27.157	1.00 43.04	BBBB
ATOM	5893	N	VAL B			-3.095	79.180	31.237	1.00 49.18	BBBB
										BBBB
MOTA	5894	CA	VAL B			-2.457	80.026	32.238	1.00 51.66	
ATOM	5895	CB	VAL B			-3.470	81.041	32.837	1.00 49.67	BBBB
ATOM	5896		VAL E			-3.946	81.995	31.765	1.00 48.10	BBBB
ATOM	5897	CG2	VAL B	268		-4.647	80.302	33.441	1.00 47.38	BBBB
ATOM	5898	С	VAL B	268		-1.800	79.281	33.393	1.00 53.52	BBBB
ATOM	5899	0	VAL E	268		-2.125	78.128	33.684	1.00 52.62	BBBB
ATOM	5900	N	LYS B	269		-0.876	79.982	34.049	1.00 56.11	BBBB
ATOM	5901	CA	LYS B	269		-0.132	79.469	35.194	1.00 58.13	BBBB
ATOM	5902	СВ	LYS E			1.092	80.352	35.463	1.00 58.86	BBBB
ATOM	5903	CG	LYS E			2.191	80.239	34.410	1.00 61.09	BBBB
			LYS E			3.418	81.089	34.750	1.00 61.82	BBBB
ATOM	5904	CD							0.01 61.86	BBBB
ATOM	5905	CE	LYS E			4.102	80.640	36.036		
ATOM	5906	NZ	LYS E			3.282	80.894	37.255	0.01 62.07	BBBB
ATOM	5907	С	LYS E	269		-0.973	79.403	36.461	1.00 57.89	BBBB
MOTA	5908	0	LYS E	269		-0.640	78.688	37.393	1.00 59.26	BBBB
ATOM	5909	N	LYS E	270		-2.073	80.137	36.489	1.00 58.12	BBBB
ATOM	5910	CA	LYS E			-2.918	80.165	37.668	1.00 59.59	BBBB
ATOM	5911	CB	LYS E			-2.323	81.173	38.661	1.00 60.74	BBBB
MOTA	5912	CG	LYS E			-3.194	81.518	39.857	1.00 63.99	BBBB
						-2.849	82.908	40.423	1.00 66.07	BBBB
ATOM	5913	CD	LYS E						1.00 67.25	BBBB
ATOM	5914	CE	LYS E			-3.277	84.034	39.467		BBBB
ATOM	5915	ΝZ	LYS E			-3.156	85.413	40.044	1.00 67.85	
ATOM	5916	C	LYS E			-4.339	80.577	37.282	1.00 59.88	BBBB
MOTA	5917	0	LYS E	270	ı	-4.529	81.337	36.338	1.00 59.74	BEBB
ATOM	5918	N.	CYS E	271		-5.336	80.070	37.999	1.00 59.88	BBBB
MOTA	5919	CA	CYS E			-6.709	80.447	37.709	1.00 60.40	BBBB
ATOM	5920	C	CYS E			-7.066	81.778	38.357	1.00 62.64	BBBB
		-					-			

ATOM	5921	0	CYS	B 2	271	-6.532	82.131	39.410	1.00 62.49	BBBB
ATOM	5922	CB	CYS	в 2	271	-7.688	79.398	38.215	1.00 57.67	BBBB
ATOM	5923	SG	CYS			-7.838	77.930	37.164	1.00 59.06	
ATOM	5924		PRO							BBBB
		N				-7.968	82.547	37.720	1.00 64.83	BBBB
ATOM	5925	CD	PRO			-8.453	82.360	36.339	1.00 64.78	BBBB
MOTA	5926	CA	PRO	В 2	272	-8.405	83.844	38.245	1.00 65.19	BBBB
ATOM	5927	CB	PRO	B 2	272	-9.397	84.320	37.186	1.00 65.42	BBBB
ATOM	5928	CG	PRO	B :	772	-8.809	83.773	35.930	1.00 65.07	BBBB
ATOM	5929	C	PRO			-9.062	83.618			
ATOM								39.604	1.00 65.58	BBBB
	5930	0	PRO			-9.911	82.734	39.755	1.00 66.05	BBBB
ATOM	5931	N	ARG	_		-8.674	84.421	40.585	1.00 66.00	BBBB
ATOM	5932	CA	ARG	B 2	273	-9.192	84.283	41.940	1.00 67.82	BBBB
MOTA	5933	CB	ARG	В 2	273	-8.771	85.503	42.767	1.00 70.89	BBBB
ATOM	5934	CG	ARG	В 2	273	-7.247	85.658	42.863	1.00 75.30	BBBB
ATOM	5935	CD	ARG			-6.795	87.023			
ATOM	5936	NE						43.394	1.00 78.19	BBBB
			ARG			-7.225	87.277	44.767	1.00 80.85	BBBB
ATOM	5937	CZ	ARG			-6.749	88.258	45.530	1.00 81.63	BBBB
MOTA	5938		ARG			-5.821	89.081	45.057	1.00 81.49	BBBB
MOTA	5939	NH2	ARG	B 2	273	-7.200	88.417	46.767	1.00 82.10	BBBB
ATOM	5940	С	ARG	В 2	273	-10.696	84.036	42.080	1.00 67.52	BBBB
ATOM	5941	0	ARG			-11.105	83.224	42.911	1.00 67.05	
ATOM	5942	N	ASN							BBBB
						-11.514	84.712	41.271	1.00 67.74	BBBB
ATOM	5943	CA	ASN			-12.975	84.558	41.344	1.00 67.53	BBBB
ATOM	5944	CB	ASN			-13.700	85.623	40.516	1.00 70.00	BBBB
ATOM	5945	CG	ASN	B 2	274	-12.860	86.845	40.277	1.00 73.39	BBBB
ATOM	5946	OD1	ASN	B 2	274	-11.853	86.797	39.562	1.00 75.38	BBBB
ATOM	5947		ASN			-13.262	87.957	40.876	1.00 75.26	BBBB
ATOM	5948	C	ASN			-13.424				
							83.207	40.824	1.00 66.68	BBBB
ATOM	5949	0	ASN			-14.494	82.706	41.206	1.00 65.06	BBBB
MOTA	5950	N	TYR			-12.612	82.633	39.938	1.00 64.39	BBBB
MOTA	5951	CA	TYR	В 2	275	-12.934	81.350	39.338	1.00 62.04	BBBB
MOTA	5952	CB	TYR	В 2	275	-12.162	81.162	38.032	1.00 63.04	BBBB
ATOM	5953	CG	TYR	В 2	275	-12.814	81.880	36.879	1.00 64.90	BBBB
ATOM	5954		TYR			-12.609	83.243	36.675		
ATOM	5955		TYR						1.00 65.65	BBBB
						-13.299	83.929	35.678	1.00 66.41	BBBB
ATOM	5956		TYR			-13.722	81.217	36.047	1.00 65.34	BBBB
ATOM	5957	CE2				-14.417	81.894	35.050	1.00 65.02	BBBB
MOTA	5958	CZ	TYR	B 2	275	-14.201	83.247	34.874	1.00 65.17	BBBB
MOTA	5959	OH	TYR	B 2	275	-14.881	83.926	33.901	1.00 64.85	BBBB
ATOM	5960	С	TYR	В :	275	-12.724	80.148	40.226	1.00 59.96	BBBB
MOTA	5961	0	TYR			-11.949	80.177	41.176	1.00 61.63	
ATOM	5962	N	VAL							BBBB
						-13.456	79.095	39.914	1.00 56.51	BBBB
ATOM	5963	CA	VAL			-13.358	77.855	40.638	1.00 55.36	BBBB
MOTA	5964	CB	VAL			-14.678	77.089	40.555	1.00 56.13	BBBB
MOTA	5965	CG1	VAL	B 2	276	 -14.504	75.661	41.058	1700 -54:80	BBBB
ATOM	5966	CG2	VAL	B 2	276	-15.728	77.822	41.357	1.00 56.14	BBBB
ATOM	5967	С	VAL	В 2	276	-12.268	77.044	39.961	1.00 54.68	BBBB
ATOM	5968	0	VAL			-12.069	77.157	38.758	1.00 54.27	
ATOM	5969	N		_						BBBB
ATOM						-11.544		40.733	1.00 54.11	BBBB
	5970	CA	VAL			-10.499	75.401	40.164	1.00 51.42	BBBB
ATOM	5971	CB	VAL			-9.160	75.587	40.889	1.00 49.12	BBBB
MOTA	5972		VAL			-8.107	74.740	40.230	1.00 47.57	BBBB
ATOM	5973	CG2	VAL	B 2	277	-8.743	77.050	40.849	1.00 48.54	BBBB
MOTA	5974	С	VAL			-10.940	73.958	40.309	1.00 51.18	BBBB
ATOM	5975	0	VAL	В 2	277	-11.175	73.492	41.419	1.00 51.13	BBBB
ATOM	5976	N	THR			-11.080	73.254	39.192	1.00 51.91	
ATOM	5977	CA	THR							BBBB
	5978					-11.495	71.854	39.246	1.00 53.54	BBBB
ATOM		CB	THR			-12.270	71.440	37.985	1.00 53.89	BBBB
ATOM	5979		THR			-11.432	71.612	36.834	1.00 54.86	BBBB
ATOM	5980	CG2	THR	B 2	278	-13.536	72.272	37.838	1.00 53.16	BBBB
MOTA	5981	C	THR	B 2	278	-10.295	70.916	39.390	1.00 54.17	BBBB
ATOM	5982	0	THR			-9.144	71.353	39.400	1.00 54.63	BBBB
ATOM	5983	N	ASP			-10.574	69.622	39.502	1.00 54.93	
ATOM	5984									BBBB
		CA	ASP			-9.519	68.627	39.638	1.00 56.27	BBBB
ATOM	5985	CB	ASP			-10.061	67.367	40.313	1.00 56.20	BBBB
MOTA	5986	CG	ASP			-10.697	67.654	41.653	1.00 57.63	BBBB
ATOM	5987	OD1	ASP	В 2	279	-10.073	68.380	42.463	1.00 58.18	BBBB
ATOM	5988	OD2	ASP	B 2	279	-11.816	67.145	41.897	1.00 57.58	BBBB
ATOM	5989	C	ASP			-8.933	68.261	38.275	1.00 56.47	BBBB
ATOM	5990	ō	ASP			-8.023	67.432	38.179	1.00 56.91	
ATOM	5991	И								BBBB
			HIS			-9.453	68.892	37.227	1.00 54.94	BBBB
ATOM	5992	CA	HIS			-8.994	68.625	35.876	1.00 53.29	BBBB
ATOM	5993	CB	HIS			-10.191	68.465	34.943	1.00 52.44	BBBB
ATOM	5994	CG	${\tt HIS}$			-11.106	67.347	35.333	1.00 54.54	BBBB
ATOM	5995	CD2	HIS	в:	280	-12.355	67.359	35.857	1.00 55.05	BBBB

ATOM	5996		HIS		280		-10.749	66.020	35.228	1.00 54.20	BBB	
ATOM	5997		HIS		280		-11.739	65.265	35.672	1.00 55.16	BBB	
ATOM ATOM	5998 5999	NE2 C	HIS		280 280		-12.723 -8.083	66.054 69.719	36.059 35.357	1.00 52.43 1.00 53.12	BBB BBB	
ATOM	6000	Õ	HIS				-7.927	69.864	34.148	1.00 55.46	BBB	
ATOM	6001	N	GLY		281		-7.490	70.491	36.264	1.00 51.26	BBB	
ATOM	6002	CA	GLY	В	281		-6.586	71.552	35.854	1.00 49.90	BBB	
MOTA	6003	C	GLY				-7.191	72.622	34.962	1.00 49.45	BBB	
ATOM ATOM	6004 6005	O N	GLY SER				-6.610 -8.355	73.000 73.128	33.942 35.349	1.00 49.37 1.00 49.27	BBB BBB	
ATOM	6006	CA			282		-9.020	74.158	34.565	1.00 48.44	BBB	
ATOM	6007	CB	SER		282		-9.867	73.502	33.485	1.00 45.87	BBB	
ATOM	6008	OG	SER	В	282		-10.864	72.693	34.072	1.00 42.19	BBB	
ATOM	6009	C			282		-9.903	75.072	35.419	1.00 50.74	BBB	
ATOM	6010	0			282		-10.473	74.644 76.330	36.433 34.986	1.00 50.26 1.00 51.84	BBB BBB	
ATOM ATOM	6011 6012	N CA	CYS CYS				-10.011 -10.814	77.347	35.660	1.00 52.85	BBB	
ATOM	6013	C	CYS		283		-12.249	77.315	35.134	1.00 54.05	BBB	
ATOM	6014	0	CYS		283		-12.487	77.462	33.943	1.00 55.43	BBB	В
ATOM	6015	CB	CYS	В	283		-10.200	78.711	35.411	1.00 52.75	BBB	
MOTA	6016	SG	CYS		283		-8.386	78.653	35.343	1.00 56.09	BBB	
ATOM	6017	N	VAL VAL		284		-13.200	77.139 77.039	36.037 35.680	1.00 55.40	BBB BBB	
ATOM ATOM	6018 6019	CA CB	VAL		284 284		-14.601 -15.128	75.640	36.104	1.00 58.19	BBB	
ATOM	6020		VAL		284		-16.621	75.659	36.310	1.00 57.82	BBB	
ATOM	6021		VAL		284		-14.762	74.619	35.043	1.00 58.26	BBB	В
ATOM	6022	С	VAL		284		-15.453	78.151	36.302	1.00 61.53	BBB	
MOTA	6023	0	VAL		284		-15.035	78.800	37.256	1.00 60.89	BBB	
ATOM ATOM	6024 6025	N CA	ARG ARG		285		-16.644 -17.547	78.374 79.403	35.744 36.243	1.00 64.81 1.00 66.28	BBB BBB	
ATOM	6026	CB	ARG		285		-18.481	79.907	35.134	1.00 65.73	BBB	
ATOM	6027	CG	ARG		285		-17.849	80.826	34.089	1.00 64.92	BBB	
MOTA	6028	CD	ARG		285		-18.926	81.398	33.148	1.00 65.37	BBB	
ATOM	6029	NE			285		-18.382	82.083	31.972	1.00 65.19	BBB	
ATOM ATOM	6030 6031	CZ NH1	ARG ARG		285		-17.533 -17.130	83.102 83.556	32.029 33.204	1.00 63.83 1.00 65.89	BBB BBB	
ATOM	6032		ARG		285			83.664	30.918	1.00 61.88	BBB	
MOTA	6033	C			285		-18.397	78.885	37.387	1.00 68.58	BBB	
MOTA	6034	0	ARG		285		-18.930	79.678	38.157	1.00 69.77	BBB	
MOTA	6035	N			286		-18.535	77.565	37.498	1.00 71.05	BBB	
ATOM ATOM	6036 6037	CA CB			286 286		-19.343 -20.805	76.979 77.333	38.568 38.354	1.00 74.87 1.00 73.86	BBB BBB	
ATOM	6038	С	ALA		286		-19.198	75.460	38.717	1.00 77.82	BBB	
ATOM	6039	0			286		-18.807	74.768	37.783	1.00 78.30	BBB	
MOTA	6040	N ·			287	-	-19.536	74.950	39.899	1.00 81.25	BBB	
MOTA	6041	CA	CYS		287	•	-19.455	73.519	40.190	1.00 83.95	BBB	
ATOM	6042 6043	C 0	CYS		287 287		-20.695 -21.616	72.749 73.324	39.726 39.151	1.00 85.20 1.00 83.93	BBB BBB	
MOTA MOTA	6044	CB		_	287		-19.263	73.324	41.693	1.00 85.54	BBB	
ATOM	6045	SG			287		-17.797	74.087	42.424	1.00 88.49	BBB	
MOTA	6046	N	GLY	В	288		-20.707	71.446	40.002	1.00 87.75	BBB	
ATOM	6047	CA			288		-21.814	70.587	39.608	1.00 90.64	BBB	
ATOM	6048	0			288 288		-23.090 -23.168	70.758 71.609	40.409 41.294	1.00 93.05 1.00 94.02	BBB BBB	
ATOM ATOM	6049 6050	И			289		-24.089	69.934	40.102	1.00 95.14	BBB	
ATOM	6051	CA			289		-25.391	69.995	40.771	1.00 97.32	BBB	
ATOM	6052	CB	ALA	В	289		-26.457	69.326	39.895	1.00 96.64	BBB	
	6053	С			289		-25.429	69.393	42.177	1.00 98.85	BBB	
ATOM	6054	0			289		-26.304	69.733	42.981 42.476	1.00 99.11	BBB BBB	
MOTA MOTA	6055 6056	N CA			290 290		-24.495 -24.455	68.495 67.864	43.789	1.00100.64	BBB	
ATOM	6057	CB			290		-24.590	66.352	43.645	1.00100.38	BBB	
ATOM	6058	C			290		-23.154	68.210	44.496	1.00101.40	BBB	В
ATOM	6059	0			290		-22.439	67.324	44.959	1.00102.21	BBB	
ATOM	6060	N			291		-22.855	69.504	44.581	1.00101.71	BBB	
ATOM	6061 6062	CA			291 291		-21.626 -20.445	69.965 69.789	45.219 44.258	1.00101.89 1.00102.57	BBB BBB	
ATOM ATOM	6062 6063	CB OG			291		-20.445	68.483	44.238	1.00102.37	BBB	
ATOM	6064	C			291		-21.730	71.437	45.607	1.00101.58	BBB	
ATOM	6065	0	SER	В	291		-22.790	72.050	45.481	1.00101.71	BBB	
MOTA	6066	N			292		-20.621	71.997	46.082	1.00100.88	BBB	
ATOM	6067 6068	CA			292 292		-20.571 -21.271	73.404 73.634	46.454 47.802	1.00100.47	BBB BBB	
ATOM ATOM	6069	CB CG			292		-21.271	73.032	47.802	1.00102.28	BBB	
ATOM	6070		TYR				-19.465	73.626	49.569	1.00104.79	BBB	

ATOM	6071	CE1	TYR B	292	-18.864	73.103	50.707	1.00105.79	BBBB
ATOM	6072	CD2	TYR B	292	-21.107	71.888	49.621	1.00104.65	BBBB
ATOM	6073	CE2	TYR B	292	-20.512	71.355	50.761	1.00105.55	BBBB
ATOM	6074	CZ	TYR B						
					-19.392	71.970	51.298	1.00105.87	BBBB
ATOM	6075	OH	TYR B	292	-18.802	71.462	52.432	1.00106.78	BBBB
ATOM	6076	С	TYR B	292	-19.120	73.887	46.479	1.00 99.25	BBBB
ATOM	6077	0	TYR B						
					-18.196	73.080	46.405	1.00 99.29	BBBB
ATOM	6078	N	GLU B	293	-18.927	75.200	46.571	1.00 97.58	BBBB
MOTA	6079	CA	GLU B	293	-17.591	75.792	46.563	1.00 95.60	
									BBBB
ATOM	6080	CB	GLU B	293	-17.638	77.148	45.855	1.00 92.73	BBBB
ATOM	6081	CG	GLU B	293	-18.048	77.056	44.395	1.00 88.53	BBBB
ATOM	6082	CD	GLU B		-18.371				
						78.402	43.782	1.00 85.48	BBBB
MOTA	6083	OE1	GLU B	293	-17.497	79.290	43.786	1.00 82.30	BBBB
ATOM	6084	OE2	GLU B	293	-19.506	78.565	43.292	1.00 84.37	BBBB
ATOM	6085	C	GLU B			75.957			
	-				-16.961		47.939	1.00 96.35	BBBB
ATOM	6086	0	GLU B	293	-17.603	76.428	48.872	1.00 95.96	BBBB
ATOM	6087	N	MET B	294	-15.692	75.572	48.044	1.00 97.95	BBBB
ATOM	6088								
		CA	MET B		-14.943	75.662	49.295	1.00 99.79	BBBB
ATOM	6089	CB	MET B	294	-14.462	74.260	49.726	1.00 99.55	BBBB
ATOM	6090	CG	MET B	294	-13.732	74.202	51.080		
								1.00 99.83	BBBB
ATOM	6091	$s_{\mathrm{D}}$	MET B	294	-13.313	72.522	51.668	1.00 97.74	BBBB
ATOM	6092	CE	MET B	294	-11.629	72.356	51.084	1.00 98.77	BBBB
ATOM	6093	С	MET B		-13.750	76.610	49.134		
								1.00100.92	BBBB
ATOM	6094	0	MET B		-13.125	76.671	48.078	1.00100.28	BBBB
ATOM	6095	N	GLU B	295	-13.455	77.356	50.193	1.00103.38	BBBB
ATOM	6096	CA	GLU B	295	-12.347				
						78.307	50.206	1.00105.65	BBBB
ATOM	6097	CB	GLU B	295	-12.781	79.590	50.918	1.00106.15	BBBB
ATOM	6098	CG	GLU B	295	-11.671	80.597	51.160	1.00108.32	BBBB
ATOM	6099	CD	GLU B						
					-11.187	81.250	49.885	1.00109.38	BBBB
ATOM	6100	OE1	GLU B	295	-10.317	82.144	49.962	1.00110.22	BBBB
ATOM	6101	OE2	GLU B	295	-11.680	80.869	48.804	1.00110.24	BBBB
ATOM									
	6102	С	GLU B		-11.175	77.680	50.953	1.00106.95	BBBB
ATOM	6103	0	GLU B	295	-11.361	77.099	52.022	1.00107.94	BBBB
ATOM	6104	N	SER B	296	-9.971	77.795	50.399	1.00107.83	BBBB
ATOM	6105	CA	SER B		-8.795	77.220	51.047	1.00108.43	BBBB
ATOM	6106	CB	SER B	296	-8.856	75.690	50.973	1.00108.89	BBBB
ATOM	6107	OG	SER B	296	-9.039	75.244	49.641	1.00109.75	BBBB
ATOM	6108								
		С	SER B		-7.464	77.713	50.482	1.00108.53	BBBB
ATOM	6109	0	SER B	296	-7.126	77.447	49.327	1.00107.82	BBBB
ATOM	6110	N	ASP B	297	-6.713	78.422	51.323	1.00109.22	BBBB
ATOM	6111	CA	ASP B		-5.409	78.978	50.963	1.00109.44	BBBB
ATOM	6112	CB	ASP B	297	-4.565	77.932	50.216	1.00110.66	BBBB
ATOM	6113	CG	ASP B	297	-3.186	78.451	49.827	1.00111.95	BBBB
ATOM	6114		ASP B		-3.106	79.344	48.957	1.00112.51	BBBB
ATOM	6115	OD2	ASP B	297	-2.180	77.965	50.390	17.00112.38	BBBB
ATOM	6116	С	ASP B	297	-5.588	80.225	50.104	1.00108.68	BBBB
ATOM									
	6117	0	ASP B		-4.973	81.262	50.353	1.00108.47	BBBB
ATOM	6118	N	GLY B	298	-6.451	80.113	49.101	1.00107.68	BBBB
ATOM	6119	CA	GLY B	298	-6.713	81.220	48.202	1.00105.62	BBBB
ATOM	6120								
		C	GLY B		-7.507	80.718	47.014	1.00104.11	BBB <b>B</b>
ATOM	6121	0	GLY B	298	-8.373	81.417	46.488	1.00104.70	BBBB
ATOM	6122	N	ALA B	299	-7.209	79.492	46.594	1.00101.80	BBBB
ATOM	6123				-7.897		10.054	1.00101.00	
		CA	ALA B		-1.091		45 400	1 00 00 50	
A COLONA						78.876	45.468	1.00 99.56	BBBB
ATOM	6124	CB	ALA B	299	-7.054	77.737	45.468 44.900	1.00 99.56 1.00 98.59	BBBB BBBB
ATOM	6124 6125	CB C	ALA B		-7.054	77.737	44.900	1.00 98.59	BBBB
ATOM	6125	С	ALA B	299	-7.054 -9.265	77.737 78.353	44.900 45.901	1.00 98.59 1.00 97.89	BBBB BBBB
ATOM ATOM	6125 6126	C 0	ALA B ALA B ALA B	299 299	-7.054 -9.265 -9.431	77.737 78.353 77.848	44.900 45.901 47.012	1.00 98.59 1.00 97.89 1.00 97.49	BBBB BBBB BBBB
ATOM	6125	С	ALA B	299 299	-7.054 -9.265	77.737 78.353	44.900 45.901	1.00 98.59 1.00 97.89	BBBB BBBB
ATOM ATOM ATOM	6125 6126 6127	С О И	ALA B ALA B ALA B ARG B	299 299 300	-7.054 -9.265 -9.431 -10.243	77.737 78.353 77.848 78.478	44.900 45.901 47.012 45.014	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44	8888 8888 8888 8888
ATOM ATOM ATOM ATOM	6125 6126 6127 6128	C O N CA	ALA B ALA B ALA B ARG B	299 299 300 300	-7.054 -9.265 -9.431 -10.243 -11.593	77.737 78.353 77.848 78.478 78.019	44.900 45.901 47.012 45.014 45.300	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 93.08	8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129	C N CA CB	ALA B ALA B ALA B ARG B ARG B	299 299 300 300 300	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580	77.737 78.353 77.848 78.478 78.019 79.095	44.900 45.901 47.012 45.014 45.300 44.851	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 93.08 1.00 92.25	8888 8888 8888 8888
ATOM ATOM ATOM ATOM	6125 6126 6127 6128	C O N CA	ALA B ALA B ALA B ARG B	299 299 300 300 300	-7.054 -9.265 -9.431 -10.243 -11.593	77.737 78.353 77.848 78.478 78.019	44.900 45.901 47.012 45.014 45.300	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 93.08	8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130	C O N CA CB CG	ALA B ALA B ALA B ARG B ARG B ARG B	299 299 300 300 300 300	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040	77.737 78.353 77.848 78.478 78.019 79.095 78.808	44.900 45.901 47.012 45.014 45.300 44.851 45.121	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 93.08 1.00 92.25 1.00 90.36	8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131	C O N CA CB CG CD	ALA B ALA B ARG B ARG B ARG B ARG B	299 299 300 300 300 300 300	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 93.08 1.00 92.25 1.00 90.36 1.00 88.32	8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6132	C N CA CB CG CD NE	ALA B ALA B ARG B ARG B ARG B ARG B ARG B ARG B	299 300 300 300 300 300 300 300	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952 46.059	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 92.25 1.00 90.36 1.00 88.32 1.00 84.35	8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131	C O N CA CB CG CD	ALA B ALA B ARG B ARG B ARG B ARG B	299 300 300 300 300 300 300 300	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 93.08 1.00 92.25 1.00 90.36 1.00 88.32	8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6132 6133	C O N CA CB CG CD NE CZ	ALA B ALA B ARG B ARG B ARG B ARG B ARG B ARG B ARG B	299 300 300 300 300 300 300 300	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952 46.059 47.156	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 92.25 1.00 90.36 1.00 88.32 1.00 84.35 1.00 82.76	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6132 6133	C O N CA CB CG CD NE CZ NH1	ALA B ALA B ARG B ARG B ARG B ARG B ARG B ARG B ARG B ARG B	299 300 300 300 300 300 300 300 300	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952 46.059 47.156 47.289	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 93.08 1.00 92.25 1.00 90.36 1.00 88.32 1.00 84.35 1.00 80.39	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6132 6133 6134 6135	C O N CA CB CG CD NE CZ NH1 NH2	ALA B ALA B ARG B	299 299 300 300 300 300 300 300 300 300	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391 -15.088	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217 81.909	44.900 45.901 47.012 45.014 45.300 44.851 45.121 46.059 47.156 47.289 48.124	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 93.08 1.00 92.25 1.00 90.36 1.00 88.32 1.00 84.35 1.00 82.76 1.00 80.39 1.00 81.83	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6132 6133	C O N CA CB CG CD NE CZ NH1	ALA B ALA B ARG B ARG B ARG B ARG B ARG B ARG B ARG B ARG B	299 299 300 300 300 300 300 300 300 300	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952 46.059 47.156 47.289	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 93.08 1.00 92.25 1.00 90.36 1.00 88.32 1.00 84.35 1.00 80.39	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6132 6133 6134 6135 6136	C O N CA CB CG CD NE CZ NH1 NH2	ALA B ALA B ALA B ARG B	299 299 300 300 300 300 300 300 300 300 300	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391 -15.088 -11.832	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217 81.909 76.702	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952 46.059 47.156 47.289 48.124 44.565	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 93.08 1.00 92.25 1.00 80.36 1.00 84.35 1.00 82.76 1.00 80.39 1.00 81.83 1.00 92.13	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6132 6133 6134 6135 6136	CONCACA CACA CACA CACA CACA CACA CACA CA	ALA B ALA B ALA B ARG B	299 299 300 300 300 300 300 300 300 300 300 3	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391 -15.088 -11.832 -11.664	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217 81.909 76.702 76.629	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952 46.059 47.156 47.289 48.124 44.565 43.352	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 92.25 1.00 90.36 1.00 88.32 1.00 84.35 1.00 82.76 1.00 80.39 1.00 81.83 1.00 92.13 1.00 91.58	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6132 6133 6134 6135 6136 6137 6138	CONCACA CANALANA CANALANA CANALANA CONCACA CANALANA CONCACA CANALANA CONCACA CANALANA CANALAN	ALA B ALA B ALA B ARG B	299 299 300 300 300 300 300 300 300 300 300 3	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391 -15.088 -11.832 -11.664 -12.208	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217 81.909 76.702 76.629 75.663	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952 46.059 47.156 47.289 48.124 44.565 43.352 45.305	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 93.08 1.00 92.25 1.00 88.32 1.00 84.35 1.00 82.76 1.00 80.39 1.00 81.83 1.00 92.13 1.00 91.58 1.00 91.61	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6132 6133 6134 6135 6136	CONCACA CACA CACA CACA CACA CACA CACA CA	ALA B ALA B ALA B ARG B	299 299 300 300 300 300 300 300 300 300 300 3	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391 -15.088 -11.832 -11.664	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217 81.909 76.702 76.629	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952 46.059 47.156 47.289 48.124 44.565 43.352	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 92.25 1.00 90.36 1.00 88.32 1.00 84.35 1.00 82.76 1.00 80.39 1.00 81.83 1.00 92.13 1.00 91.58	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6132 6133 6134 6135 6136 6137 6138 6139	CONCA	ALA B ALA B ALA B ARG B	299 299 300 300 300 300 300 300 300 300 300 3	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391 -15.088 -11.832 -11.664 -12.208 -12.445	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217 81.909 76.702 76.629 75.663 74.345	44.900 45.901 47.012 45.014 45.300 45.300 45.121 44.952 46.059 47.156 47.289 48.124 48.565 43.352 45.305 44.720	1.00 98.59 1.00 97.89 1.00 97.49 1.00 93.08 1.00 92.25 1.00 90.36 1.00 88.32 1.00 84.35 1.00 82.76 1.00 80.39 1.00 81.83 1.00 91.58 1.00 91.61 1.00 91.67	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6132 6133 6134 6135 6136 6137 6138 6139 6140	CONCACBCC CONCACBCCC CONCACCC	ALA B ALA B ALA B ARG B	299 299 300 300 300 300 300 300 300 300 300 3	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391 -15.088 -11.832 -11.664 -12.208 -12.445 -11.394	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217 81.909 76.702 76.629 75.663 74.345 73.368	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952 46.059 47.156 47.289 48.124 44.565 43.352 45.305 44.720 45.221	1.00 98.59 1.00 97.89 1.00 97.49 1.00 93.08 1.00 92.25 1.00 88.32 1.00 84.35 1.00 82.76 1.00 80.39 1.00 81.83 1.00 92.13 1.00 91.58 1.00 91.61 1.00 91.67 1.00 91.32	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6132 6133 6134 6135 6136 6137 6138 6140 6141	CONCACBCCNH1NH2CONCACBCC	ALA B ALA B ARG B	299 299 300 300 300 300 300 300 300 300 300 3	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391 -15.088 -11.832 -11.664 -12.208 -12.445 -11.394 -13.839	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217 81.909 76.702 76.629 75.663 74.345 73.368 73.808	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952 46.059 47.156 47.289 48.124 44.565 43.352 44.720 45.221 45.028	1.00 98.59 1.00 97.89 1.00 97.49 1.00 93.08 1.00 92.25 1.00 90.36 1.00 88.32 1.00 84.35 1.00 80.39 1.00 81.83 1.00 92.13 1.00 91.58 1.00 91.61 1.00 91.67 1.00 91.32 1.00 92.02	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6132 6133 6134 6135 6136 6137 6138 6139 6140	CONCACBCC CONCACBCCC CONCACCC	ALA B ALA B ALA B ARG B	299 299 300 300 300 300 300 300 300 300 300 3	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391 -15.088 -11.832 -11.664 -12.208 -12.445 -11.394	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217 81.909 76.702 76.629 75.663 74.345 73.368	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952 46.059 47.156 47.289 48.124 44.565 43.352 45.305 44.720 45.221	1.00 98.59 1.00 97.89 1.00 97.49 1.00 93.08 1.00 92.25 1.00 88.32 1.00 84.35 1.00 82.76 1.00 80.39 1.00 81.83 1.00 92.13 1.00 91.58 1.00 91.61 1.00 91.67 1.00 91.32	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6133 6134 6135 6136 6137 6138 6139 6140 6141 6142	CONCACBCCNH1 NH2 CONCACBCCO	ALA B ALA B ARG B	299 299 300 300 300 300 300 300 300 300 301 301	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391 -15.088 -11.832 -11.664 -12.208 -12.445 -11.394 -13.839 -14.527	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217 81.909 76.702 76.629 75.663 74.345 73.368 73.808 74.323	44.900 45.901 47.012 45.014 45.300 44.851 45.121 44.952 46.059 47.156 47.289 48.124 44.565 43.352 45.305 45.221 45.028 45.903	1.00 98.59 1.00 97.89 1.00 97.49 1.00 93.08 1.00 92.25 1.00 90.36 1.00 88.32 1.00 82.76 1.00 80.39 1.00 81.83 1.00 92.13 1.00 91.61 1.00 91.61 1.00 91.67 1.00 91.32 1.00 92.02 1.00 92.15	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6133 6134 6135 6136 6137 6138 6139 6141 6142 6143	CONCACBCCDNECZNH11NH2CONCACBCCNNCCNNCCONCACCBCCNNCCNNCCCNNCCNNCCCNNC	ALA B ALA B ARG B	299 299 300 300 300 300 300 300 300 300 301 301	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391 -15.088 -11.832 -11.664 -12.208 -12.445 -11.394 -13.839 -14.527 -14.250	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217 81.909 76.702 76.629 75.663 74.345 73.368 73.808 74.323 72.768	44.900 45.901 47.012 45.014 45.300 44.851 45.121 45.125 46.059 47.156 47.289 48.124 44.565 43.352 45.305 44.720 45.221 45.028 45.903 44.305	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 92.25 1.00 90.36 1.00 88.32 1.00 84.35 1.00 82.76 1.00 80.39 1.00 81.83 1.00 92.13 1.00 91.61 1.00 91.67 1.00 91.32 1.00 92.02 1.00 92.05 1.00 92.05	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6133 6134 6135 6136 6137 6138 6139 6141 6142 6143 6144	CONCACBCCNH1	ALA B ALA B ARG B	299 299 300 300 300 300 300 300 300 300 301 301	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391 -15.088 -11.832 -11.664 -12.208 -12.485 -11.394 -13.839 -14.527 -14.250 -15.568	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.050 80.217 81.909 76.702 76.629 75.663 74.345 73.368 73.868 74.323 72.768 72.166	44.900 45.901 47.012 45.014 45.300 44.851 45.121 46.059 47.156 47.289 48.124 44.565 43.352 45.305 44.720 45.221 45.028 45.903 44.305 44.508	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 93.08 1.00 90.36 1.00 88.32 1.00 84.35 1.00 82.76 1.00 80.39 1.00 81.83 1.00 92.13 1.00 91.58 1.00 91.61 1.00 91.67 1.00 92.02 1.00 92.02 1.00 92.02 1.00 92.51 1.00 93.39	8888 8888 8888 8888 8888 8888 8888 8888 8888
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6125 6126 6127 6128 6129 6130 6131 6133 6134 6135 6136 6137 6138 6139 6141 6142 6143	CONCACBCCDNECZNH11NH2CONCACBCCNNCCNNCCONCACCBCCNNCCNNCCNNCCNNCCNNCCNNCCNNCCNNCC	ALA B ALA B ARG B	299 299 300 300 300 300 300 300 300 300 301 301	-7.054 -9.265 -9.431 -10.243 -11.593 -12.580 -14.040 -14.845 -14.621 -15.368 -16.391 -15.088 -11.832 -11.664 -12.208 -12.445 -11.394 -13.839 -14.527 -14.250	77.737 78.353 77.848 78.478 78.019 79.095 78.808 80.091 81.016 81.050 80.217 81.909 76.702 76.629 75.663 74.345 73.368 73.808 74.323 72.768	44.900 45.901 47.012 45.014 45.300 44.851 45.121 45.125 46.059 47.156 47.289 48.124 44.565 43.352 45.305 44.720 45.221 45.028 45.903 44.305	1.00 98.59 1.00 97.89 1.00 97.49 1.00 95.44 1.00 92.25 1.00 90.36 1.00 88.32 1.00 84.35 1.00 82.76 1.00 80.39 1.00 81.83 1.00 92.13 1.00 91.61 1.00 91.67 1.00 91.32 1.00 92.02 1.00 92.05 1.00 92.05	8888 8888 8888 8888 8888 8888 8888 8888 8888

ATOM	6146	0	CYS B	302	-14.460	70.472	45.808	1.00 94.83	BBBB
ATOM	6147	СВ	CYS B		-16.123	71.643	43.180	1.00 91.89	BBBB
ATOM	6148	SG	CYS B		-16.241	72.899	41.860	1.00 91.26	BBBB
ATOM	6149	N	SER B		-16.677	70.694	46.100	1.00 95.63	BBBB
			SER B			69.642	47.111	1.00 97.03	BBBB
ATOM	6150	CA			-16.764			1.00 97.03	BBBB
MOTA	6151	CB	SER B		-16.555	70.247	48.502		
MOTA	6152	QG	SER B		-16.900	69.325	49.520	1.00 97.14	BBBB
ATOM	6153	С	SER B		-18.108	68.922	47.072	1.00 97.97	BBBB
MOTA	6154	0	SER B	303	-19.151	69.558	46.933	1.00 99.34	BBBB
MOTA	6155	N	ALA B	304	-18.081	67.597	47.206	1.00 98.24	BBBB
ATOM	6156	CA	ALA B	304	-19.307	66.799	47.183	1.00 98.28	BBBB
ATOM	6157	CB	ALA B	304	-18.965	65.316	47.224	1.00 98.20	BBBB
ATOM	6158	C	ALA B		-20.254	67.153	48.332	1.00 98.32	BBBB
ATOM .	6159	0	ALA B		-19.833	67.364	49.469	1.00 97.72	BBBB
							48.020	1.00 99.11	BBBB
ATOM	6160	N	CYS B		-21.543	67.207			
ATOM	61.61	CA	CYS B		-22.569	67.550	48.998	1.00100.24	BBBB
ATOM	6162	С	CYS B		-22.807	66.486	50.070	1.00100.45	BBBB
ATOM	6163	0	CYS E	305	-23.212	65.362	49.771	1.00 99.80	BBBB
ATOM	6164	CB	CYS E	305	-23.884	67.865	48.268	1.00100.67	BBBB
ATOM	6165	SG	CYS E	305	-23.920	69.505	47.466	1.00101.44	BBBB
ATOM	6166	N	ALA E	306	-22.559	66.864	51.323	1.00101.02	BBBB
ATOM	6167	CA	ALA E	306	-22.739	65.975	52.470	1.00101.69	BBBB
ATOM	6168	CB	ALA E		-22.349	66.697	53.756	1.00101.97	BBBB
	6169	C	ALA E		-24.180	65.482	52.569	1.00102.04	BBBB
ATOM									BBBB
MOTA	6170	0	ALA E		-24.431	64.340	52.959	1.00102.65	
MOTA	6171	N	GLY E		-25.123	66.353	52.223	1.00101.47	BBBB
MOTA	6172	CA	GLY E		-26.531	65.992	52.261	1.00100.77	BBBB
ATOM	6173	С	GLY E	307	-27.269	66.762	51.183	1.00100.52	BBBB
ATOM	6174	0	GLY E	307	-26.654	67.194	50.206	1.00100.41	BBBB
ATOM	6175	N	ALA E	308	-28.581	66.919	51.330	1.00100.00	BBBB
ATOM	6176	CA	ALA E	308	-29.349	67.683	50.353	1.00 99.65	BBBB
ATOM	6177	СВ	ALA E	308	-30.843	67.539	50.623	1.00100.11	BBBB
ATOM	6178	C	ALA E		-28.896	69.129	50.571	1.00 99.19	BBBB
ATOM	6179	Ö	ALA E		-29.487	69.867	51.363	1.00 99.68	BBBB
							49.869	1.00 98.26	BBBB
ATOM	6180	N	CYS E		-27.834	69.519			
MOTA	6181	CA	CYS E		-27.236	70.849	49.999	1.00 96.80	BBBB
MOTA	6182	С	CYS E		-28.018	72.085	49.571	1.00 95.02	BBBB
ATOM	6183	0	CYS E	309	-29.213	72.039	49.269	1.00 94.74	BBBB
ATOM	6184	CB	CYS E	309	-25.878	70.880	49.287	1.00 97.56	BBBB
ATOM	6185	SG	CYS E	309	-25.853	70.084	47.647	1.00 98.57	BBBB
ATOM	6186	N	ARG E	310	-27.288	73.197	49.568	1.00 93.50	BBBB
ATOM	6187	CA	ARG E		-27.786	74.511	49.194	1.00 91.30	BBBB
ATOM	6188	CB	ARG E		-26.657	75.528	49.364	1.00 92.63	BBBB
	6189	CG	ARG E		-25.786	75.244	50.592	1.00 93.80	BBBB
ATOM						75.774	50.444	1.00 93.85	BBBB
MOTA	6190	CD -	"ARG" E		-24.364				BBBB
ATOM	6191	NE	ARG E		-23.498	75.291	51.517	0.01 94.21	
MOTA	6192	CZ	ARG E		-22.202	75.570	51.619	0.01 94.37	BBBB
ATOM	6193	NH1	ARG E	3 310	-21.611	76.335	50.711	0.01 94.60	BBBB
MOTA	6194	NH2	ARG E	3 310	-21.494	75.079	52.628	0.01 94.59	BBBB
ATOM	6195	C	ARG E	310	-28.197	74.423	47.733	1.00 88.78	BBBB
ATOM	6196	0	ARG E	310	-27.419	73.959	46.899	1.00 89.06	BBBB
ATOM	6197	N	LYS E		-29.409	74.868	47.419	1.00 86.20	BBBB
ATOM	6198	CA	LYS E		-29.900	74.804	46.043	1.00 83.33	BBBB
ATOM	6199	CB	LYS E		-31.433	74.730	46.042	1.00 81.98	BBBB
ATOM	6200	CG	LYS E		-32.138	76.049	46.256	1.00 80.30	BBBB
ATOM	6201	CD	LYS E		-32.774	76.516	44.962	1.00 79.79	BBBB
								1.00 78.65	BBBB
MOTA	6202	CE	LYS E		-33.810	75.520	44.468		BBBB
ATOM	6203	ΝZ	LYS E		-34.512	75.984	43.243	1.00 79.12	
ATOM	6204	С	LYS E		-29.422	75.955	45.150	1.00 81.30	BBBB
ATOM	6205	0	LYS E	311	-29.561	77.130	45.491	1.00 80.79	BBBB
ATOM	6206	N	VAL E	312	-28.857	75.595	44.001	1.00 78.69	BBBB
ATOM	6207	CA	VAL E	312	-28.349	76.570	43.045	1.00 77.04	BBBB
ATOM	6208	СВ	VAL E		-26.997	76.111	42.471	1.00 76.65	BBBB
ATOM	6209		VAL E		-26.399	77.205	41.605	1.00 76.83	BBBB
ATOM	6210		VAL I		-26.054	75.753	43.607	1.00 76.21	BBBB
ATOM	6211	CGZ		312	-29.342	76.771	41.896	1.00 75.82	BBBB
								1.00 75.82	BBBB
ATOM	6212	0		312	-30.023	75.829	41.490		BBBB
MOTA	6213	N		3 313	-29.419	77.998	41.380	1.00 73.10	
MOTA	6214	CA		3 313	-30.336	79.328	40.287	1.00 69.11	BBBB
MOTA	6215	С		313	-29.643	79.027	39.128	1.00 67.68	BBBB
MOTA	6216	0	CYS F	313	-28.899	79.991	39.332	1.00 67.77	BBBB
ATOM	6217	CB		3 313	-31.468	79.225	40.798	1.00 67.86	BBBB
ATOM	6218	SG		3 313	-32.502	78.447	42.073	1.00 67.91	BBBB
ATOM	6219	N		3 314		78.544	37.911	1.00 66.79	BBBB
ATOM	6220	CA		3 314	-29.306	79.137	36.710		BBBB
ALOPI	0220	U.A.	HOW I	, J14	25.500		55.710		

ATOM	6221	CB	ASN	В	314	-29.645	78.312	35.468	1.00 65.90	BBBB
ATOM	6222	CG			314	-28.905		35.415		
ATOM	6223		ASN						1.00 67.36	BBBB
						-27.679		35.544	1.00 66.00	BBBB
ATOM	6224		ASN			-29.650		35.208	1.00 67.98	BBBB
ATOM	6225	С	ASN	В	314	-29.846	80.546	36.516	1.00 64.27	BBBB
ATOM	6226	0	ASN	В	314	-31.039	80.796	36.705	1.00 64.02	BBBB
ATOM	6227	N			315	-28.969		36.132	1.00 62.81	
ATOM	6228	CA								BBBB
					315	-29.394		35.923	1.00 62.27	BBBB
ATOM	6229	С			315	-29.923	83.069	34.524	1.00 61.63	BBBB
ATOM	6230	0	GLY	В	315	-30.139	82.130	33.762	1.00 60.61	BBBB
ATOM	6231	N	ILE	В	316	-30.140		34.189	1.00 61.26	BBBB
ATOM	6232	CA			316	-30.635		32.875		
MOTA	6233	CB							1.00 61.15	BBBB
					316	-31.347		32.911	1.00 60.46	BBBB
ATOM	6234		ILE			-31.093	86.835	31.627	1.00 60.57	BBBB
ATOM	6235	CG1	ILE	В	316	-32.845	85.851	33.114	1.00 59.15	BBBB
ATOM	6236	CD1	ILE	В	31.6	-33.200		34.438	1.00 59.51	
ATOM	6237	C			316					BBBB
						-29.485		31.884	1.00 61.78	BBBB
ATOM	6238	0			316	-28.439	85.313	32.159	1.00 62.20	BBBB
ATOM	6239	N	GLY	В	317	-29.687	84.105	30.732	1.00 63.12	BBBB
MOTA	6240	CA	GLY	В	317	-28.658		29.708	1.00 64.84	BBBB
ATOM	6241	С			317	-27.883				
ATOM								29.684	1.00 65.69	BBBB
	6242	0			317	-26.887		28.972	1.00 66.28	BBBB
ATOM	6243	N			318	-28.347	81.801	30.463	1.00 66.14	BBBB
ATOM	6244	CA	ILE	В	318	-27.693	80.504	30.547	1.00 67.55	BBBB
ATOM	6245	CB			318	-26.694	80.467	31.750	1.00 68.45	
ATOM	6246		ILE			-26.839				BBBB
								32.544	1.00 67.29	BBBB
ATOM	6247		ILE			-25.265	80.650	31.230	1.00 68.27	BBBB
MOTA	6248	CD1	ILE	В	318	-24.207	80.693	32.319	1.00 70.29	BBBB
ATOM	6249	С	ILE	В	318	-28.722	79.395	30.691	1.00 67.99	BBBB
ATOM	6250	0			318	-29.704	79.540	31.419		
MOTA	6251								1.00 67.90	BBBB
		N			319	-28.492		29.986	1.00 68.51	BBBB
ATOM	6252	CA			319	-29.408	77.166	30.049	1.00 69.26	BBBB
ATOM	6253	С	GLY	В	319	-30.763	77.461	29.432	1.00 69.48	BBBB
ATOM	6254	0			319	-30.851		28.287	1.00 68.54	BBBB
ATOM	6255	N			320					
						-31.824	77.203	30.193	1.00 69.59	BBBB
ATOM	6256	CA			320	-33.178		29.716	1.00 70.78	BBBB
ATOM	6257	CB	GĻU	В	320	-34.192	76.649	30.549	1.00 71.27	BBBB
ATOM	6258	CG	GLU	В	320	-34.256	77.030	32.023	1.00 74.88	BBBB
ATOM	6259	CD			320	-33.161	76.385	32.873	1.00 77.60	
ATOM	6260		GLU							BBBB
						-31.960		32.569	1.00 78.05	BBBB
ATOM	6261		GLU			-33.509	75.684	33.856	1.00 77.65	BBBB
ATOM	6262	С	GLU	В	320	-33.508	78.929	29.781	1.00 71.21	BBBB
ATOM	6263	0	GLU	В	320	-34.662	79.329	29.613	1.00 71.99	BBBB
ATOM	6264	N			321	-32.484	79.744	30.015		
ATOM	6265								1.00 70.49	BBBB
			PHE			-32.658	81.187	30.113	1.00 68.90	BBBB
ATOM	6266	CB			321	-32.435	81.626	31.556	1.00 68.44	BBBB
ATOM	6267	CG	PHE	В	321	-33.258	80.865	32.555	1.00 67.69	BBBB
ATOM	6268	CD1	PHE	В	321	-32.670	80.345	33.704	1.00 68.15	BBBB
ATOM	6269		PHE			-34.619				
ATOM	6270								1.00 67.72	BBBB
			PHE			-33.427	79.646	34.643	1.00 67.20	BBB <b>B</b>
MOTA	6271	CE2	PHE			-35.388	79.977	33.290	1.00 67.76	BBBB
ATOM	6272	CZ	PHE	В	321	-34.788	79.462	34.435	1.00 67.36	BBBB
ATOM	6273	С			321	-31.684	81.912	29.189	1.00 68.22	BBBB
ATOM	6274	0			321	-31.500				
ATOM	6275	N						29.291	1.00 66.59	BBBB
					322	-31.073		28.285	1.00 68.90	BBBB
ATOM	6276	CA			322	-30.110	81.684	27.323	1.00 70.10	BBBB
MOTA	6277	CB	LYS	В	322	-29.626	80.559	26.403	1.00 73.25	BBBB
ATOM	6278	CG	LYS	В	322	-28.692	81.001	25.274	1.00 77.45	BBBB
MOTA	6279	CD			322	-28.246		24.412		
ATOM	6280	CE							1.00 79.77	BBBB
					322	-29.440		23.744	1.00 81.78	BBBB
ATOM	6281	NZ			322	-29.046	<b>77.</b> 957	22.891	1.00 81.06	BBBB
MOTA	6282	С	LYS			-30.706	82.798	26.475	1.00 69.43	BBBB
MOTA	6283	0	LYS	В	322	-30.009		26.076	1.00 69.86	BBBB
ATOM	6284	N	ASP			-32.000		26.201	1.00 67.62	
ATOM	6285	CA	ASP							BBBB
						32.661	83.699	25.386	1.00 65.49	BBBB
ATOM	6286	CB	ASP			-33.230	83.033	24.132	1.00 67.74	BBBB
MOTA	6287	CG	ASP			-32.165	82.797	23.067	1.00 70.63	BBBB
ATOM	6288	OD1	ASP			-31.701	83.806	22.476	1.00 71.54	BBBB
MOTA	6289		ASP			-31.786	81.619			
ATOM	6290	C						22.828	1.00 69.84	BBBB
			ASP			-33.741	84.477	26.124	1.00 62.95	BBBB
ATOM	6291	0	ASP			-34.727	84.912	25.534	1.00 63.68	BBBB
MOTA	6292	И	SER	В	324	-33.547	84.659	27.422	1.00 58.84	BBBB
ATOM	6293	CA	SER			-34.499	85.408	28.222	1.00 55.63	BBBB
ATOM	6294	CB	SER			-34.795				
							84.652	29.514	1.00 55.44	BBBB
MOTA	6295	OG	SEK	Ħ	324	-35.232	83.336	29.236	1.00 52.70	BBBB

MOTA	6296	С	SER E	3 324	-33.845	86.751	28.523	1.00 54.09	BBBB
MOTA	6297	Ö	SER I		-32.691	86.792	28.928	1.00 55.19	BBBB
ATOM	6298	N	LEU E		-34.563	87.849	28.322	1.00 51.47	BBBB
ATOM	6299	CA	LEU E		-33.975	89.164	28.570	1.00 49.05	BBBB
ATOM	6300	СВ	LEU E	3 325	-34.643	90.228	27.694	1.00 47.40	BBBB
ATOM	6301	CG	LEU E	3 325	-34.265	90.244	26.217	1.00 45.78	BBBB
ATOM	6302	CD1	LEU E	3 3 2 5	-35.076	91.293	25.502	1.00 44.92	BBBB
ATOM	6303		LEU E		-32.793	90.539	26.069	1.00 46.75	BBBB
ATOM	6304	С		3 325	-34.039	89.617	30.020	1.00 47.91	BBBB
ATOM	6305	0	LEU E		-33.243	90.454	30.453	1.00 46.83	BBBB
ATOM	6306	N	SER E	3 326	-34.978	89.059	30.771	1.00 46.46	BBBB
ATOM	6307	CA	SER F	3 326	-35.142	89.460	32.155	1.00 46.06	BBBB
ATOM	6308	CB		326	-35.831	90.834	32.195	1.00 43.30	BBBB
ATOM	6309	OG		3 326	-36.329	91.133	33.487	1.00 42.62	BBBB
ATOM	6310	С		3 326	-35.964	88.444	32.937	1.00 47.16	BBBB
MOTA	6311	0	SER I	3 326	-36.556	87.540	32.365	1.00 46.72	BBBB
ATOM	6312	N	ILE H	3 327	-35.971	88.584	34.254	1.00 48.02	BBBB
ATOM	6313	CA	ILE E	3 327	-36.764	87.711	35.083	1.00 50.65	BBBB
ATOM	6314	CB	ILE H		-36.442	87.919	36.585	1.00 49.79	BBBB
	6315		ILE E		-37.621	87.528	37.442	1.00 49.71	BBBB
ATOM									
MOTA	6316		ILE E		-35.225	87.079	36.972	1.00 50.62	BBBB
ATOM	6317	CD1	ILE I	3 327	-34.804	87.233	38.419	0.01 50.48	BBBB
ATOM	6318	С	ILE I	3 327	-38.172	88.181	34.769	1.00 53.13	BBBB
ATOM	6319	0	ILE I	3 327	-38.432	89.377	34.758	1.00 54.35	BBBB
ATOM	6320	N	ASN I		-39.070	87.248	34.476	1.00 56.23	BBBB
		CA	ASN I		-40.451	87.592	34.150	1.00 57.54	BBBB
ATOM	6321								
MOTA	6322	CB	ASN I		-40.602	87.769	32.634	1.00 55.73	BBBB
ATOM	6323	CG	ASN I	3 328	-40.293	86.504	31.871	1.00 54.33	BBBB
ATOM	6324	OD1	ASN I	3 328	-40.766	85.436	32.236	1.00 53.76	BBBB
ATOM	6325	ND2	ASN I	3 328	-39.510	86.619	30.804	1.00 56.09	BBBB
ATOM	6326	С	ASN I		-41.437	86.532	34.648	1.00 59.49	BBBB
				3 328		85.536	35.263	1.00 59.84	BBBB
MOTA	6327	0			-41.047				
ATOM	6328	И		3 329	-42.719	86.758	34.380	1.00 62.01	BBBB
MOTA	6329	CA	ALA I	3.329	-43.775	85.838	34.796	1.00 63.43	BBBB
MOTA	6330	CB	ALA I	3 329	-45.074	86.164	34.061	1.00 63.91	BBBB
ATOM	6331	C	ALA I	3 329	-43.371	84.404	34.510	1.00 63.56	BBBB
ATOM	6332	0		3 329	-43.232	83.585	35.416	1.00 64.38	BBBB
ATOM	6333	N		3 330	-43.182	84.113	33.233	1.00 63.44	BBBB
							32.799	1.00 64.49	BBBB
ATOM	6334	CA	THR		-42.790	82.788			
MOTA	6335	CB		3 330	-42.465	82.823	31.305	1.00 63.43	BBBB
MOTA	6336	OG1	THR I	3 330	-43.589	83.368	30.608	1.00 62.46	BBBB
MOTA	6337	CG2	THR I	330	-42.168	81.433	30.774	1.00 62.87	BBBB
MOTA	6338	С	THR	3 3 3 0	-41.595	82.229	33.582	1.00 65.88	BBBB
ATOM	6339	ō		3 3 3 0	-41.586	81.056	33.941	1.00 65.41	BBBB
				3.331	-40.605	83.084	33.850	1.00 68.25	BBBB
ATOM	6340	N							
MOTA	6341	CA		3 331	-39.376	82.720	34.567	1.00 68.99	BBBB
MOTA	6342	CB	ASN I	B <b>331</b>	-38.353	83.844	34.455	1.00 68.69	BBBB
MOTA	6343	CG	ASN I	B 331	-37.844	84.013	33.066	1.00 70.30	BBBB
ATOM	6344	OD1	ASN I	B 331	-37.315	85.061	32.716	1.00 72.45	BBBB
ATOM	6345		ASN		-37.988	82.975	32.255	1.00 70.51	BBBB
	6346			B 331	-39.526	82.394	36.038	1.00 70.04	BBBB
ATOM		C							
ATOM	6347	0		B 331	-39.348	81.254	36.440	1.00 69.17	BBBB
ATOM	6348	N	ILE	B 332	-39.807	83.425	36.831	1.00 72.29	BBBB
MOTA	6349	CA	ILE	B 332	-39.972	83.312	38.281	1.00 74.96	BBBB
ATOM	6350	CB	ILE	B 332	-41.122	84.227	38.755	1.00 75.82	BBBB
ATOM	6351	CG2	ILE :	B 332	-41.628	83.791	40.117	1.00 77.32	BBBB
ATOM	6352		ILE		-40.631	85.671	38.791	1.00 75.63	BBBB
					-39.473		39.739	1.00 75.59	BBBB
MOTA	6353		ILE			85.889			
MOTA	6354	С		B 332	-40.213	81.884	38.758	1.00 75.52	BBBB
ATOM	6355	0	ILE :	B 332	-39.625	81.433	39.743	1.00 76.31	BBBB
ATOM	6356	N	LYS	в 333	-41.094	81.189	38.051	1.00 75.70	BBBB
ATOM	6357	CA	LYS	B 333	-41.429	79.800	38.331	1.00 74.42	BBBB
ATOM	6358	СВ		B 333	-41.973	79.186	37.034	1.00 74.76	BBBB
MOTA	6359	CG		B 333	-42.341	77.711	37.044	1.00 74.79	BBBB
								1.00 73.27	BBBB
MOTA	6360	CD		B 333	-42.914	77.321	35.677		
MOTA	6361	CE		В 333	-41.933	77.655	34.553	1.00 73.00	BBBB
MOTA	6362	NZ	LYS	B 333	-42.501	77.500	33.186	1.00 72.02	BBBB
MOTA	6363	С	LYS	B 333	-40.205	79.020	38.830	1.00 73.34	BBBB
ATOM	6364	Ō		B 333	-40.314	78.182	39.716	1.00 73.79	BBBB
ATOM	6365	N		B 334	-39.039	79.337	38.279	1.00 72.05	BBBB
								1.00 71.32	BBBB
ATOM	6366	CA		B 334	-37.799	78.649	38.615		BBBB
ATOM	6367	CB		B 334	-36.996	78.413	37.331	1.00 73.14	
MOTA	6368	CG		B 334	-37.741	77.654	36.277	1.00 74.90	BBBB
ATOM	6369	CD2	HIS	В 334 -	-38.698	78.049	35.403	1.00 74.74	BBBB
ATOM	6370	ND1	HIS	B 334	-37.546	76.309	36.049	1.00 75.57	BBBB

ATOM	6371	CE1	HIS B 334	-38.351	75.908	35.081	1 00 76 00	2222
ATOM	6372		HIS B 334	-39.061	76.944		1.00 76.00	BBBB
ATOM	6373	C	HIS B 334	-36.874			1.00 75.62	BEBB
ATOM	6374	Ö			79.311		1.00 70.54	BBBB
MOTA	6375		HIS B 334	-35.777	78.810		1.00 71.01	BBB <b>B</b>
		N	PHE B 335	-37.281	80.415	40.241	1.00 69.54	BBBB
MOTA	6376	CA	PHE B 335	-36.380	81.073	41.187	1.00 69.65	BBBB
ATOM	6377	CB	PHE B 335	-36.107	82.516	40.738	1.00 67.18	BBBB
MOTA	6378	CG	PHE B 335	-35.473	82.613	39.384	1.00 63.02	BBBB
ATOM	6379	CD1	PHE B 335	~36.240	82.485	38.233	1.00 61.32	
ATOM	6380		PHE B 335	-34.101	82.777	39.259		BBBB
ATOM	6381		PHE B 335	-35.651			1.00 61.48	BBBB
ATOM	6382		PHE B 335		82.514	36.973	1.00 60.12	BBBB
ATOM	6383	CZ		-33.501	82.807	38.003	1.00 61.68	BBBB
ATOM			PHE B 335	-34.282	82.674	36.857	1.00 60.22	BBBB
	6384	С	PHE B 335	-36.796	81.071	42.656	1.00 70.97	BBBB
ATOM	6385	0	PHE B 335	-36.300	81.882	43.447	1.00 72.11	BBBB
ATOM	6386	N	LYS B 336	-37.684	80.154	43.029	1.00 71.52	BBBB
ATOM	6387	CA	LYS B 336	-38.141	80.076	44.411	1.00 71.65	BBBB
ATOM	6388	CB	LYS B 336	~39.522	79.405	44.473	1.00 72.51	
ATOM	6389	CG	LYS B 336	-40.445	79.952	45.570		BBBB
ATOM	6390	CD	LYS B 336	-39.840	79.791		1.00 74.09	BBBB
ATOM	6391	CE	LYS B 336			46.964	1.00 75.52	BBBB
ATOM	6392	NZ	LYS B 336	-40.657	80.516	48.024	1.00 75.95	BBBB
ATOM				-40.000	80.486	49.365	1.00 76.46	BBBB
	6393	C	LYS B 336	-37.131	79.304	45.268	1.00 70.97	BBBB
ATOM	6394	0	LYS B 336	-36.532	78.333	44.810	1.00 70.63	BBBB
ATOM	6395	N	ASN B 337	-36.941	79.758	46.505	1.00 71.06	BBBB
MOTA	6396	CA	ASN B 337	-36.020	79.126	47.447	1.00 70.74	BBBB
MOTA	6397	CB	ASN B 337	-36.512	77.725	47.824	1.00 73.65	
ATOM	6398	CG	ASN B 337	-37.395	77.722	49.062		BBBB
ATOM	6399	OD1	ASN B 337	-38.374	78.464		1.00 75.89	BBBB
ATOM	6400		ASN B 337			49.143	1.00 78.26	BBBB
ATOM	6401	C	ASN B 337	-37.053	76.876	50.032	1.00 76.63	BBBB
ATOM	6402			-34.579	79.027	46.969	1.00 69.04	BBBB
		0	ASN B 337	-33.809	78.228	47.496	1.00 69.63	BBBB
ATOM	6403	N	CYS B 338	-34.207	79.818	45.970	1.00 67.23	BBBB
ATOM	6404	CA	CYS B 338	-32.831	79.783	45.494	1.00 64.97	BBBB
ATOM	6405	С	CYS B 338	-31.959	80.370	46.593	1.00 63.49	BBBB
ATOM	6406	0	CYS B 338	-32.382	81.267	47.318	1.00 63.64	BBBB
ATOM	6407	CB	CYS B 338	-32.680	80.592	44.208	1.00 65.09	BBBB
ATOM	6408	SG	CYS B 338	-33.662	79.937	42.823	1.00 65.86	BBBB
ATOM	6409	И	THR B 339	-30.747	79.852	46.725	1.00 61.37	
ATOM	6410	CA	THR B 339	-29.827	80.315	47.753		BBBB
ATOM	6411	СВ	THR B 339	-29.361			1.00 59.44	BBBB
ATOM	6412	OG1			79.129	48.610	1.00 60.39	BBBB
ATOM	6413		THR B 339	-30.490	78.604	49.322	1.00 62.68	BBBB
ATOM				-28.278	79.552	49.599	1.00 60.13	BBBB
	6414	С	THR B 339	-28.632	80.982	47.109	1.00 57.10	BBBB
ATOM	6415	0	THR B 339	-27.916	81.771	47.732	1.00 55.60	BBBB
ATOM	6416	N	SER B 340	-28.433	80.655	45.840	1.00 55.47	BBBB
ATOM	6417	CA	SER B 340	-27.335	81.198	45.067	1.00 52.65	BBBB
ATOM	6418	CB	SER B 340	-26.119	80.282	45.195	1.00 52.72	BBBB
MOTA	6419	OG	SER B 340	-25.039	80.758			BBBB
MOTA	6420	С	SER B 340	-27.756	81.281	43.611	1.00 51.70	
ATOM	6421	0	SER B 340	-28.515	80.432			BBBB
ATOM	6422	N	ILE B 341	-27.290		43.129	1.00 52.16	BBBB
ATOM	6423	CA	ILE B 341		82.310	42.913	1.00 48.37	BBBB
ATOM	6424	CB		-27.595	82.428	41.499	1.00 46.41	BBBB
ATOM			ILE B 341	-28.124	83.829	41.115	1.00 44.81	BBBB
	6425	002	ILE B 341	-28.282	83.929	39.607	1.00 43.61	BBBB
ATOM	6426	CGI	ILE B 341	-29.466	84.095	41.801	1.00 44.09	BBBB
ATOM	6427		ILE B 341	-30.562	83.124	41.457	1.00 42.13	BBBB
ATOM	6428	C	ILE B 341	-26.292	82.163	40.758	1.00 46.70	BBBB
ATOM	6429	0	ILE B 341	-25.331	82.921	40.887	1.00 44.95	BBBB
ATOM	6430	N	SER B 342	-26.256	81.065	40.006	1.00 47.12	BBBB
ATOM	6431	CA	SER B 342	-25.067	80.716	39.245	1.00 47.33	
ATOM	6432	CB	SER B 342	-24.948	79.198			BBBB
MOTA	6433	OG	SER B 342			39.046	1.00 46.09	BBBB
ATOM	6434	C		-23.688	78.872	38.478	1.00 42.37	BBBB
ATOM			SER B 342	-25.272	81.384	37.919	1.00 47.98	BBBB
	6435	0	SER B 342	-26.023	80.894	37.079	1.00 49.60	BBBB
ATOM	6436	N	GLY B 343	-24.617	82.517	37.731	1.00 48.46	BBBB
ATOM	6437	CA	GLY B 343	-24.784	83.234	36.483	1.00 46.97	BBBB
ATOM	6438	С	GLY B 343	-25.197	84.666	36.745	1.00 45.82	BBBB
ATOM	6439	0	GLY B 343	-24.599	85.328	37.595	1.00 46.58	BBBB
ATOM	6440	N	ASP B 344	-26.230	85.143	36.055	1.00 43.09	
ATOM	6441	CA	ASP B 344	-26.639				BEBB
ATOM	6442		ASP B 344		86.529	36.228	1.00 40.82	BBBB
ATOM	6443	CG	ASP B 344	-26.204	87.322	35.003	1.00 41.30	BBBB
ATOM				-24.790	86.989	34.571	1.00 42.04	BBBB
	6444	ODT	ASP B 344	-24.578	86.677	33.383	1.00 45.28	BBBB
MOTA	6445	002	ASP B 344	-23.883	87.040	35.417	1.00 41.93	BBBB

ATOM	6446	С	ASP B	344	-28.119	86.766	36.471	1.00 39.81	BBBB
ATOM	6447	0	ASP B	344	-28.953	85.922	36.186	1.00 41.14	BBBB
ATOM	6448	N	LEU B	345	-28.435	87.930	37.020	1.00 38.89	BBBB
ATOM	6449	CA	LEU B		-29.818	88.314	37.252	1.00 37.49	BBBB
MOTA	6450	CB	LEU B		-30.067	88.604	38.727	1.00 36.92	BBBB
ATOM	6451	CG	LEU B		-30.288	87.396	39.616	1.00 37.97	BBBB
ATOM	6452		LEU B		-30.541	87.856	41.033	1.00 39.49	BBBB
ATOM	6453		LEU B		-31.476	86.599	39.103	1.00 40.67	BBBB
ATOM	6454	C	LEU B		-30.048	89.586	36.448	1.00 37.47	BBBB
MOTA	6455	0	LEU B		-29.285 -31.079	90.541 89.582	36.570 35.611	1.00 37.68 1.00 37.72	BBBB BBBB
ATOM ATOM	6456 6457	N CA	HIS B		-31.429	90.746	34.801	1.00 37.72	BBBB
MOTA	6458	CB	HIS B		-31.429	90.429	33.307	1.00 37.07	BBBB
ATOM	6459	CG	HIS E		-30.110	90.046	32.735	1.00 37.35	BBBB
ATOM	6460		HIS B		-29.166	89.180	33.164	1.00 35.34	BBBB
ATOM	6461		HIS B		-29.673	90.519	31.512	1.00 36.70	BBBB
ATOM	6462		HIS B		-28.517	89.958	31.214	1.00 32.70	BBBB
ATOM	6463		HIS E		-28.188	89.141	32.200	1.00 37.32	BBBB
ATOM	6464	С	HIS E	346	-32.852	91.169	35.138	1.00 37.84	BBBB
ATOM	6465	0	HIS E	346	-33.773	90.367	35.034	1.00 36.38	BBBB
MOTA	6466	N	ILE E	347	-33.044	92.419	35.536	1.00 37.99	BBBB
ATOM	6467	CA	ILE E	347	-34.391	92.893	35.812	1.00 38.63	BBBB
ATOM	6468	CB	ILE E	347	-34.563	93.388	37.265	1.00 39.62	BBBB
ATOM	6469		ILE E		-36.053	93.566	37.567	1.00 38.72	BBBB
ATOM	6470		ILE E		-33.943	92.402	38.257	1.00 37.69	BBBB
MOTA	6471		ILE E		-34.788	91.219	38.557	1.00 37.71	BBBB
ATOM	6472	С	ILE E		-34.603	94.086	34.887	1.00 39.40	BBBB
ATOM	6473	0	ILE E		-34.034	95.148	35.115	1.00 38.62	BBBB
MOTA	6474	N	LEU E		-35.399	93.919	33.837	1.00 41.41	BBBB
MOTA	6475	CA	LEU E		-35.651	95.035	32.923	1.00 43.56	BBBB
MOTA	6476	CB	LEU E		-35.387	94.630	31.474	1.00 40.60	BBBB BBBB
ATOM	6477	CG	LEU E		-34.055	93.968	31.150 29.668	1.00 38.94	BBBB
ATOM	6478		LEU E		-33.827 -32.938	94.053 94.643	31.889	1.00 33.34	BBBB
ATOM ATOM	6479 6480	CDZ	LEU E		-37.088	95.524	33.045	1.00 45.21	BBBB
ATOM	6481	0	LEU E		-37.008	94.880	33.690	1.00 46.03	BBBB
ATOM	6482	N	PRO E		-37.401	96.689	32.451	1.00 46.16	BBBB
ATOM	6483	CD	PRO E		-36.475	97.653	31.829	1.00 46.64	BBBB
ATOM	6484	CA	PRO E		-38.757	97.236	32.507	1.00 46.98	BBBB
ATOM	6485	CB	PRO E		-38.654	98.481	31.641	1.00 45.66	BBBB
ATOM	6486	CG	PRO E		-37.257	98.936	31.877	1.00 45.66	BBBB
ATOM	6487	С	PRO E	349	-39.732	96.219	31.926	1.00 49.72	BBBB
ATOM	6488	0	PRO E	349	-40.873	96.094	32.364	1.00 49.86	BBBB
ATOM	6489	N	VAL E	350	-39.250	95.479	30.940	1.00 52.51	BBBB
MOTA	6490	CA	VAL E	3 350	-40.044	94.469	30.265	1700 56.07	BBBB
MOTA	6491	CB	VAL E		-39.166	93.685	29.275	1.00 58.54	BBBB
ATOM	6492		VAL E		-40.041	92.967	28.242	1.00 57.79	BBBB
MOTA	6493		VAL E		-38.164	94.647	28.609	1.00 58.65	BBBB
MOTA	6494	C	VAL E		-40.675	93.494	31.249	1.00 57.28	BBBB
ATOM	6495	0	VAL E		-41.759	92.965	31.011 32.360	1.00 58.21 1.00 57.61	BBBB BBBB
ATOM	6496	N	ALA E		-39.999	93.258 92.333	33.349	1.00 57.81	BBBB
ATOM ATOM	6497 6498	CA CB	ALA E		-40.516 -39.651	92.365	34.593	1.00 57.77	BBBB
ATOM	6499	СВ	ALA E		-41.962	92.638	33.718	1.00 62.52	BBBB
ATOM	6500	0	ALA E		-42.878	91.895	33.346	1.00 62.99	BBBB
ATOM	6501	N	PHE E		-42.146	93.743	34.440	1.00 64.49	BBBB
ATOM	6502	CA	PHE E		-43.448	94.193	34.936	1.00 65.64	BBBB
ATOM	6503	СВ	PHE E		-43.239	95.354	35.911	1.00 65.23	BBBB
ATOM	6504	CG	PHE E		-42.092	95.158	36.862	1.00 64.95	BBBB
ATOM	6505	CD1	PHE E		-40.961	95.966	36.781	1.00 65.73	BBBB
ATOM	6506	CD2	PHE E	352	-42.145	94.186	37.853	1.00 65.57	BBBB
ATOM	6507	CE1	PHE E	352	-39.899	95.810	37.676	1.00 65.39	BBBB
ATOM	6508	CE2	PHE E	352	-41.085	94.022	38.755	1.00 65.60	BBBB
ATOM	6509	CZ	PHE E	352	-39.962	94.837	38.664	1.00 64.57	BBBB
ATOM	6510	C	PHE E		-44.478	94.614	33.878	1.00 66.84	BBBB
MOTA	6511	0	PHE E		-45.683	94.446	34.065	1.00 66.54	BBBB
MOTA	6512	N	ARG F		-44.000	95.177	32.779	1.00 68.46	BBBB
MOTA	6513	CA	ARG E		-44.870	95.632	31.706	1.00 70.48	BBBB
MOTA	6514	СВ	ARG I		-44.106	96.631	30.830	1.00 72.39	BBBB
MOTA	6515	CG	ARG I		-44.833	97.163	29.599	1.00 73.98	BBBB
ATOM	6516	CD	ARG I		-43.823	97.864	28.692	1.00 76.48	BBBB BBBB
MOTA	6517	NE		353	-42.956	98.755	29.464	1.00 78.86 1.00 79.62	BBBB
MOTA	6518 6519	CZ		353	-41.774	99.213 98.867	29.053 27.863	1.00 79.62	BBBB
ATOM	6519 6520		ARG I		-41.297 -41.065	100.022	29.839	1.00 78.85	BBBB
MOTA	5520	MUZ	ANG I	ددر ر	-31.003	100.022	23.003		

ATOM	6521	С	ARG	В	353	-45.356	94.460	30.861	1 00	71 10	מחתת
ATOM	6522	ō	ARG							71.10	BBBB
ATOM	6523	N	GLY			-46.522	94.404	30.479		72.29	BBBB
ATOM	6524					-44.459	93.526	30.569		71.17	BBBB
		CA	GLY			-44.827	92.383	29.755	1.00	71.01	BBBB
ATOM	6525	С	GLY			-44.459	92.594	28.297	1.00	71.35	BBBB
ATOM	6526	0	$\operatorname{GLY}$	В	354	-44.590	93.698	27.767	1.00	72.45	BBBB
ATOM	6527	N	ASP	₿	355	-43.993	91.539	27.642		71.22	BBBB
ATOM	6528	CA	ASP	В	355	-43.607	91.636	26.242			
ATOM	6529	СВ	ASP			-42.170				71.80	BBBB
ATOM	6530	CG	ASP				91.139	26.050		71.41	BBBB
ATOM						-41.627	91.437	24.665	1.00	71.30	BBBB
	6531		ASP			-41.852	92.562	24.171	1.00	71.37	BBBB
ATOM	6532		ASP			-40.962	90.558	24.077	1.00	70.73	BBBB
ATOM	6533	С	ASP	В	355	-44.561	90.795	25.425	1.00	72.88	BBBB
ATOM	6534	0	ASP	В	355	-44.912	89.685	25.818		72.62	BBBB
ATOM	6535	N	SER			-44.989	91.325	24.288		74.27	
ATOM	6536	CA	SER			-45.915					BBBB
ATOM	6537	CB	SER				90.598	23.436		75.18	BBBB
						-46.923	91.559	22.809		76.41	BBBB
ATOM	6538	OG	SER			-47.651	92.245	23.814	1.00	76.96	BBBB
ATOM	6539	С	SER			-45.179	89.852	22.345	1.00	75.07	BBBB
ATOM	6540	0	SER	В	356	-45.703	88.901	21.774	1.00	75.98	BBBB
ATOM	6541	N	PHE	В	357	-43.960	90.280	22.052		74.54	BBBB
ATOM	6542	CA	PHE			-43.194	89.620				
ATOM	6543	CB	PHE		357			21.012		74.60	BBBB
ATOM	6544					-41.962	90.440	20.648		74.47	BBBB
		CG	PHE			-41.234	89.919	19.450	1.00	75.82	BBBB
MOTA	6545		PHE			-41.823	89.967	18.193	1.00	76.15	BBBB
ATOM	6546	CD2	PHE	В	357	-39.968	89.359	19.576	1.00	76.65	BBBB
MOTA	6547	CE1	PHE	В	357	-41.158	89.463	17.073		77.05	BBBB
ATOM	6548	CE2	PHE	В	357	-39.293	88.851	18.460		76.83	
ATOM	6549	CZ	PHE			-39.889	88.903				BBBB
ATOM	6550	C	PHE					17.209		76.17	BBBB
ATOM	6551					-42.769	88.227	21.460		74.37	BBBB
		0	PHE			-42.473	87.364	20.634	1.00	74.95	BBBB
MOTA	6552	N	THR			-42.737	88.009	22.769	1.00	73.05	BBBB
ATOM	6553	CA	THR	В	358	-42.344	86.714	23.297	1.00	71:85	BBBB
ATOM	6554	CB	THR	В	358	-41.027	86.808	24.075		71.47	BBBB
ATOM	6555	OG1	THR	В	358	-41.195	87.689	25.191		72.16	BBBB
ATOM	6556		THR		358	-39.916	87.329				
ATOM	6557	C	THR					23.174		69.25	BBBB
ATOM	6558	ō				-43.430	86.188	24.215		72.42	BBBB
			THR		358	-43.167	85.416	25.137	1.00	73.02	BBBB
ATOM	6559	N	HIS			-44.654	86.628	23.950	1.00	71.96	BBBB
ATOM	6560	CA	HIS	В	359	-45.828	86.220	24.709	1.00	72.06	BBBB
ATOM	6561	CB	HIS	В	359	-46.379	84.911	24.135		72.11	BBBB
ATOM	6562	CG	HIS	В.	359	-46.495	84.907	22.637		72.57	BBBB
ATOM	6563	CD2	HIS			-47.468	85.370				
ATOM	6564		HIS			-45.513		21.814		71.73	BBBB
ATOM	6565						84.393	21.814		71.52	BBBB
			HIS			-45.877	84.538	20.551	1.00	70.99	BBBB
ATOM	6566		HIS		359	-47.059	85.129	20.524	1.00	70.90	BBBB
ATOM	6567	С	HIS	в.	359	-45.543	86.063	26.202	1.00	72.48	BBBB
MOTA	6568	0	HIS			-45.907	85.059	26.809	1.00	73.32	BBBB
ATOM	6569	N	THR	В :	360	-44.903	87.069	26.788		72.39	BBBB
ATOM	6570	CA	THR			-44.559	87.044	28.203		72.95	BBBB
ATOM	6571	CB	THR			-43.116	87.540				
ATOM	6572		THR	<u> </u>	360	-42.203		28.436		72.89	BBBB
ATOM	6573	CGO	THR	D .	360		86.722	27.696		72.57	BBBB
						-42.762	87.486	29.917		71.39	BBBB
ATOM	6574	C	THR			-45.496	87.901	29.043		73.52	BBBB
ATOM	6575	0	THR			-45.364	89.122	29.099	1.00	73.76	BBBB
ATOM	6576	N	PRO			-46.448	87.263	29.727	1.00	73.90	BB <b>BB</b>
MOTA	6577	CD	PRO	В:	361	-46.605	85.802	29.802		73.55	BBBB
MOTA	6578	CA	PRO	в:	361	-47.425	87.943	30.582		74.77	BBBB
ATOM	6579	CB	PRO			-48.066	86.795	31.342		74.38	BBBB
ATOM	6580	CG	PRO			-47.987	85.663	30.366			
ATOM	6581	C	PRO							74.87	BBBB
						-46.759	88.926	31.535		75.61	BBBB
ATOM	6582	0	PRO			-45.588	88.780	31.863	1.00	75.65	BBBB
ATOM	6583	N	PRO			-47.499	89.949	31.985	1.00	77.07	BBBB
MOTA	6584	CD	PRO	в:	362	-48.844	90.368	31.558	1.00	78.27	BBBB
ATOM	6585	CA	PRO	в :	362	-46.927	90.926	32.912	1.00		BBBB
ATOM	6586	CB	PRO			-48.112	91.813	33.252		76.80	
ATOM	6587	CG	PRO			-48.872					BBBB
ATOM	6588	C					91.825	31.979	1.00		BBBB
			PRO			-46.428	90.165	34.118	1.00		BBBB
ATOM	6589	0	PRO			-46.618	88.954	34.204	1.00	79.95	BBBB
ATOM	6590		LEU			-45.803	90.869	35.051	1.00	79.98	BBBB
ATOM	6591	CA	LEU	В 3	363	-45.268	90.233	36.243	1.00	81.06	BBBB
ATOM	6592	CB	LEU :	в 3	363	-43.747	90.403	36.282	1.00		BBBB
ATOM	6593		LEU			-42.999	89.928	37.528	1.00		BBBB
ATOM	6594		LEU			~43.116	88.423	37.672	1.00		
ATOM	6595		LEU :								BBBB
	3030	CDZ	. لانت	د د		-41.543	90.331	37.415	1.00	50.32	BBBB

ATOM	6596	С	LEU	В	363	-45.882	90.846	37.483	1.00 82	.19	BBBB
ATOM	6597	Ō	LEU		363	-46.203	92.030	37.502	1.00 83		BBBB
ATOM	6598	N	ASP		364	-46.050	90.037	38.519	1.00 83		BBBB
ATOM	6599	CA	ASP		364	-46.617	90.528	39.764	1.00 84		BBBB
	6600	CB	ASP		364	-47.372	89.411	40.489	1.00 85		BBBB
ATOM							89.935	41.617	1.00 86		BBBB
ATOM	6601	CG	ASP		364	-48.242					
MOTA	6602		ASP			-49.197	90.680	41.322	1.00 87		BBBB
MOTA	6603		ASP			-47.976	89.610	42.795	1.00 86		BBBB
MOTA	6604	С	ASP			-45.463	91.016	40.627	1.00 85		BBBB
ATOM	6605	0	ASP			-44.800	90.225	41.296	1.00 85		BBBB
ATOM	6606	N	PRO	В	365	-45.205	92.332	40.620	1.00 85		BBBB
MOTA	6607	CD	PRO	В	365	-46.013	93.373	39.962	1.00 85		BBBB
ATOM	6608	CA	PRO	В	365	-44.123	92.938	41.401	1.00 84	.74	BBBB
ATOM	6609	CB	PRO	В	365	-44.581	94.382	41.530	1.00 84	.81	BBBB
ATOM	6610	CG	PRO	В	365	-45.175	94.623	40.178	1.00 85	.52	BBBB
ATOM	6611	С	PRO	В	365	-43.846	92.281	42.752	1.00 83	.78	BBBB
ATOM	6612	0	PRO	В	365	-42.689	92.106	43.131	1.00 83	, 90	BBBB
ATOM	6613	N	GLN	В	366	-44.905	91.914	43.468	1.00 82	.56	BBBB
MOTA	6614	CA	GLN	В	366	-44.764	91.280	44.778	1.00 81	.82	BBBB
ATOM	6615	CB	GLN	В	366	-46.148	90.956	45.354	1.00 81	.66	BBBB
ATOM	6616	CG	GLN		366	-46.681	91.978	46.344	0.01 82	. 94	BBBB
ATOM	6617	CD	GLN		366	-45.930	91.954	47.660	0.01 83		BBBB
ATOM	6618		GLN		366	-45.825	90.913	48.310	0.01 83		BBBB
ATOM	6619		GLN		366	-45.406	93.105	48.064	0.01 83		BBBB
ATOM	6620	C	GLN		366	-43.915	90.005	44.746	1.00 80		BBBB
ATOM	6621	0	GLN		366	-43.226	89.687	45.720	1.00 80		BBBB
		N	GLU		367	-43.962	89.291	43.720	1.00 78		BBBB
ATOM	6622		GLU	_				43.454	1.00 76		BBBB
ATOM	6623	CA		_	367	-43.234	88.038 87.380	42.142	1.00 78		BBBB
ATOM	6624	CB	GLU		367	-43.643			1.00 /8	_	BBBB
ATOM	6625	CG	GLU		367	-44.939	86.607	42.227	1.00 83		
ATOM	6626	CD	GLU		367	-45.306	85.963	40.910			BBBB
ATOM	6627		GLU			-45.836	86.669	40.021	1.00 84		BBBB
MOTA	6628		GLU			-45.048	84.749	40.760	1.00 84		BBBB
ATOM	6629	С			367	-41.713	88.089	43.524	1.00 74		BBBB
MOTA	6630	0			367	-41.072	87.084	43.840	1.00 74		BBBB
MOTA	6631	И			368	-41.126	89.242	43.224	1.00 72		BBBB
MOTA	6632	CA			368	-39.677	89.354	43.269	1.00 70		BBBB
MOTA	6633	CB			368	-39.220	90.729	42.780	1.00 68		BBBB
ATOM	6634	CG	LEU	В	368	-39.114	90.923	41.267	1.00 68		BBBB
MOTA	6635	CD1	LEU	В	368	-38.431	92.245	40.978	1.00 68		BBBB
ATOM	6636	CD2	LEU		368	-38.317	89.790	40.647	1.00 67		BBBB
MOTA	6637	С	LEU	В	368	-39.109	89.098	44.658	1.00 69		BBBB
MOTA	6638	0	LEU	В	368	-37.902	88.937	44.815	1.00 70	).52	BBBB
ATOM	6639	N	ASP	В	369	-39.970	89.047	45.667	1.00 68	3.60	BBBB
MOTA	6640	CA	ASP	В	369	-39.504	887.824	47.028	···1:-00-67	7.47	BBBB-
ATOM	6641	CB	ASP	В	369	-40.575	89.252	48.026	1.00 70	0.43	BBBB
ATOM	6642	CG	ASP	В	369	-40.708	90.757	48.116	1.00 73	2.86	BBBB
ATOM	6643	OD1	ASP	В	369	-39.914	91.380	48.860	1.00 73	3.78	BBBB
ATOM	6644	OD2	ASP	В	369	-41.593	91.313	47.428	1.00 73		BBBB
ATOM	6645	С	ASP	В	369	-39.091	87.394	47.302	1.00 65		BBBB
MOTA	6646	0	ASP	В	369	-38.666	87.075	48.409	1.00 65	.86	BBBB
ATOM	6647	N	ILE	В	370	-39.222	86.532	46.301	1.00 63	3.55	BBBB
ATOM	6648	CA	ILE	В	370	-38.833	85.137	46.465	1.00 61	49	BBBB
ATOM	6649	CB	ILE	В	370	-39.453	84.227	45.384	1.00 61	.61	BBBB
ATOM		CG2			370	-40.967	84.362	45.400	1.00 63	3.52	BEBB
MOTA		CG1	ILE	₽	370	-38.917	84.602	44.005	1.00 61	59	BBBB
ATOM					370	-39.303	83.622	42.925	1.00 60	11.	BBBB
ATOM		C			370	-37.324	85.066	46.349	1.00 59		BBBB
ATOM		Ö			370	-36.698	84.089	46.747	1.00 60		BBBB
ATOM		N			371	-36.750	86.123	45.791	1.00 58		BBBB
ATOM		CA			371	-35.313	86.218	45.610	1.00 55		BBBB
ATOM		CB			371	-34.993	87.299	44.584	1.00 54		BBBB
ATOM		CG			371	-35.384	86.999	43.139	1.00 53		BBBB
					371	-35.222	88.254	42.284	1.00 52		BBBB
MOTA MOTA					371	-34.517	85.881	42.504	1.00 50		BBBB
		CDZ			371	-34.676	86.567	46.936	1.00 53		BBBB
MOTA							86.535	47.083	1.00 50		BBBB
ATOM		O N			371	-33.462 -35.516			1.00 54		BBBB
ATOM		N			372	-35.516	86.895	47.906			BBBB
ATOM		CA			372	-35.041	87.270	49.233	1.00 55		BBBB
ATOM		CB			372	-36.227	87.484	50.167	1.00 54		
ATOM		CG			372	-35.914	88.386	51.330	1.00 57		BBBB
ATOM		CD			372	-36.204	89.824	50.972	1.00 60		BBBB
ATOM		CE			372	-37.704	90.048	50.835	1.00 62		BBBB
ATOM		NZ			372	-38.402	89.697	52.099	1.00 63		BBBB
ATOM	6670	С	LYS	В	372	-34.109	86.206	49.830	1.00 55	J. Z I	BBBB

ATOM	6671	0	LYS	B	372	-33.309	86.484	50.723	1.00 54	4 60	BBBB
ATOM											8888
	6672	N	THR	В	373	-34.207	84.988	49.323	1.00 59	5.06	BBBB
ATOM	6673	CA	THR	В	373	-33.389	83.905	49.833	1.00 54	1 96	BBBB
ATOM	6674	CB			373						
						-34.134	82.574	49.686	1.00 55	5.97	BBBB
ATOM	6675	OG1	THR	В	373	-33.229	81.495	49.936	1.00 62	2.53	BBBB
ATOM	6676	CG2	THR	R	373	-34.716	82.442				
								48.299	1.00 55	5.92	BBBB
ATOM	6677	С	THR	В	373	-32.007	83.807	49.179	1.00 53	3.43	BBBB
ATOM	6678	0	THR	B	373						
						-31.152	83.052	49.642	1.00 53	3. I.	BBBB
ATOM	6679	N	VAL	В	374	-31.787	84.590	48.124	1.00 51	1.45	BBBB
ATOM	6680	CA	VAL	R	374	-30.518	84.595	47.407			
									1.00 48		BBBB
ATOM	6681	CB	VAL	В	374	-30.667	85.236	46.017	1.00 47	7.47	BBBB
ATOM	6682	CG1	VAL	В	374	-29.332	85.206	45.282	1.00 45	. 33	
ATOM	6683										BBBB
			VAL			-31.739	84.517	45.228	1.00 45	5.40	BBBB
ATOM	6684	C	VAL	В	374	-29.440	85.365	48.158	1.00 49	4 63	BBBB
ATOM	6685	0									
		U	VAL		374	-29.594	86.553	48.415	1.00 49	9.58	BBBB
ATOM	6686	N	LYS	В	375	-28.343	84.685	48.488	1.00 50	20	BBBB
ATOM	6687	CA	LYS		375						
						-27.234	85.297	49.213	1.00 50	).22	BBBB
ATOM	6688	CB	LYS	В	375	-26.820	84.425	50.396	1.00 51	. 97	BBBB
ATOM	6689	CG	LYS	D	375						
						-27.853	84.305	51.480	1.00 54	1.96	BBBB
ATOM	6690	CD	LYS	В	375	-27.419	83.273	52.499	1.00 59	3.62	BBBB
ATOM	6691	CE	LYS	P	375	-28.167					
							83.449	53.804	1.00 62	. 95	BBBB
ATOM	6692	ΝZ	LYS	В	375	-27.880	84.800	54.37 <b>7</b>	1.00 65	5.62	BBBB
ATOM	6693	С	LYS	B	375	-26.037	85.457	48.305	1.00 49		
											BBBB
MOTA	6694	0	LYS	В	375	-25.112	86.215	48.606	1.00 48	3.44	BBBB
ATOM	6695	N	GLU	R	376	-26.052	84.732	47.193			
									1.00 50		BBBB
MOTA	6696	CA	GLU	В	376	-24.942	84.791	46.254	1.00 51	.14	BBBB
ATOM	6697	CB	GLU	В	376	-24.020	83.594	46.474	1.00 55	61	
											BBBB
ATOM	6698	CG	GLU	В	376	-22.902	83.459	45.451	1.00 60	.50	BBBB
ATOM	6699	CD	GLU	B	376	-22.300	82.064	45.444	1.00 65	. 27	
ATOM											BBBB
	6700	OFT	GLU	В	376	-21.301	81.842	44.716	1.00 66	.83	BBBB
ATOM	6701	OE2	GLU	В	376	-22.838	81.188	46.166	1.00 67	1 16	BBBB
ATOM	6702										
		C	GLU		376	-25.325	84.841	44.783	1.00 49	0.06	BBBB
ATOM	6703	0	GLU	В	376	-26.266	84.183	44.341	1.00 47	80	BBBB
MOTA	6704	N	ILE	D	377						
						-24.560	85.632	44.040	1.00 47	.93	BBBB
MOTA	6705	CA	ILE	В	377	-24.727	85.79 <b>1</b>	42.606	1.00 45	5.52	BBBB
ATOM	6706	CB	ILE	D	377	-25.285					
							87.192	42.244	1.00 45	). TO	BBBB
ATOM	6707	CG2	ITE.	В	377	-25.300	87.371	40.725	1.00 45	.48	BBBB
ATOM	6708	CG1	ILE	R	377	-26.709	87.347	42.781			
									1.00 42		BBBB
ATOM	6709	CDI	ILE	В	377	-27.348	88.659	42.402	1.00 40	).17	BBBB
ATOM	6710	С	ILE	R	377	-23.351	85.607	41.979	1.00 44		
											BBBB
ATOM	6711	0	ILE	В	377	-22.461	86.446	42.140	1.00 43	3.23	BBBB
ATOM	6712	N	THR	R	378	-23.192	84.490	41.279	1.00 44		
											BBBB
MOTA	6713	CA	THR	В	378	-21.943	84.117	40.618	1.00 46	5.49	BBBB
ATOM	6714	CB	THR	В	378	-22.095	82.772	39.891	1.00 48	7.5	BBBB
ATOM	6715	- CO-1-			378						
						-22.284	81.729	40.856	1.00 51	00	BBBB
ATOM	6716	CG2	THR	В	378	-20.856	82.472	39.061	1.00 51	. 82	BBBB
ATOM	6717	С	THR	D	378	-21.450					
							85.140	39.614	1.00 46	).IO	BBBB
ATOM	6718	0	THR	В	378	-20.265	85.465	39.579	1.00 46	.58	BBBB
ATOM	6719	N	GLY	В	379	-22.361	85.633	38.783	1.00 46		
											BBBB
MOTA	6720	CA	GLY			-21.989	86.628	37.792	1.00 45	.78	BBBB
ATOM	6721	С	GLY	B	379	-22.309	88.051	38.221	1.00 44		BBBB
ATOM											
	6722	0	GLY			-21.880	88.517	39.286	1.00 44	.55	BBBB
MOTA	6723	И	PHE	В	380	-23.077	88.748	37.389	1.00 42	91	BBBB
ATOM	6724	CA	PHE								
						-23.446	90.125	37.676	1.00 40	1.19	BBBB
ATOM	6725	CB	PHE	В	380	-23.024	91.023	36.515	1.00 39	.56	вввв
ATOM	6726	CG	PHE			-23.781	90.771	35.234	1.00 40		
											BBBB
ATOM	6727		PHE			-25.090	91.215	35.078	1.00 39	.81	BBBB
MOTA	6728		PHE			-23.158	90.148	34.154	1.00 40		
											BBBB
ATOM	6729		PHE			-25.760	91.053	33.868	1.00 38	.42	BBBB
ATOM	6730	CE2	PHE	В	380	-23.820	89.984	32.951	1.00 39		BBBB
ATOM											
	6731	CZ	PHE			-25.122	90.441	32.807	1.00 37	.85	BBBB
ATOM	6732	C	PHE	В	380	-24.928	90.328	37.948	1.00 38	50	BBBB
ATOM	6733	ō	PHE								
						-25.762	89.477	37.624	1.00 38		BBBB
ATOM	6734	N	LEU	В	381	-25.230	91.473	38.555	1.00 35	.38	BBBB
ATOM	6735	CA	LEU								
						-26.594	91.879	38.859	1.00 34		BBBB
ATOM	6736	CB	LEU	В	381	-26.745	92.152	40.352	1.00 31	. 43	BBBB
ATOM	6737	CG	LEU			-28.053					
							92.826	40.771	1.00 33		BBBB
MOTA	6738	CD1	LEU	В	381	-29.256	92.073	40.206	1.00 31	.24	BBBB
ATOM	6739		LEU			-28.121	92.895				
								42.287	1.00 31		BBBB
ATOM	6740	С	LEU	В	381	-26.923	93.151	38.072	1.00 34	.39	BBBB
ATOM	6741	0	LEU	В	381	-26.309	94.194	38.275	1.00 34		BBBB
ATOM	6742	N	LEU			-27.884	93.059	37.160	1.00 35	.48	BBBB
ATOM	6743	CA	LEU	В	382	-28.295	94.221	36.360	1.00 34		BBBB
ATOM											
	6744	CB	LEU			-28.189	93.918	34.864	1.00 32	. 33	BBBB
ATOM	6745	CG	LEU	В	382	-28.790	94.950	33.903	1.00 32	. 01	BBBB
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ATOM	6746	CD1	LEU	В	382	-27.973	96.243	33.966	1.00	30.40	BBBB
ATOM	6747		LEU		382	-28.793		32.463		31.64	BBBB
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ATOM	6751	CA	ILE		383	-31.285		37.534		32.90	BBBB
ATOM	6752	CB	ILE		383	-31.393		39.042		33.30	BBBB
ATOM	6753		ILE		383	-32.714	97.191	39.380		30.60	BBBB
ATOM	6754		ILE		383	-31.222		39.775		30.66	BBBB
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ATOM	6756	C	ILE		383	-31.662		36.798		33.58	BBBB
ATOM	6757	0	ILE		383	-31.113		37.087		32.04	BBBB
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MOTA MOTA	6759	CA CB	GLN GLN		384 384	-33.055		35.074 33.564		37.37	BBBB BBBB
ATOM	6760 6761	CG	GLN		384	-32.904 -31.472		33.055		37.68	BBBB
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ATOM	6769	СВ	ALA		385	-37.513		35.621	1.00	44.14	BBBB
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MOTA	6771	0	ALA	В	385	-36.029	97.011	38.473	1.00	46.18	BBBB
ATOM	6772	N	TRP	В	386	-37.780	98.386	38.673	1.00	48.11	BBBB
ATOM	6773	CA	TRP	В	386	-38.082	97.957	40.024	1.00	49.84	BBBB
ATOM	6774	CB	TRP	В	386	-37.126	98.635	40.990	1.00	49.46	BBBB
ATOM	6775	CG	TRP	В	386	-36.943	97.901	42.253	1.00	50.54	BBBB
MOTA	6776	CD2	TRP	₿	386	-36.427	96.576	42.399	1.00	51.02	BBBB
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ATOM	6779		TRP		386	-37.176		43.508		50.74	BBBB
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ATOM	6785	0	TRP		386	-39.929		39.927		52.41 54.73	BBBB BBBB
ATOM	6786	N	PRO PRO		387 387	-40.271 -39.898		41.044 41.769		55.80	BBBB
MOTA MOTA	6787 6788	CD CA	PRO		387	-41.652		41.769		56.61	BBBB
ATOM	6789	CB			387	-42.080		42.374		56.06	BBBB
ATOM	6790	CG -			-387	-41.246				56.16	
ATOM	6791	C	PRO			-41.711		41.907		59.04	BBBB
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ATOM	6793	N			388		100.104	41.522		62.17	BBBB
ATOM	6794	CA		_	388		101.470	42.005		65.59	BBBB
ATOM	6795	CB			388		102.207	41.216		69.38	BBBB
ATOM	6796	CG			388		102.365	39.720		74.69	BBBB
ATOM	6797	CD	GLU	₿	388	-42.416	103.241	39.444	1.00	77.95	BBBB
MOTA	6798	OE1	GLU	В	388	-41.980	103.304	38.267	1.00	79.91	BBBB
ATOM	6799	OE2	GLU	В	388	-41.898	103.871	40.397	1.00	78.20	BBBB
MOTA	6800	С	GLU	В	388	-43.179	101.492	43.499	1.00	65.36	BBBB
ATOM	6801	0	GLU	В	388	-42.793	102.417	44.214		64.98	BBBB
ATOM	6802	N			389	-43.859	100.451	43.968		65.40	BBBB
MOTA	6803	CA			389		100.347	45.375		66.07	BBBB
ATOM	6804	CB			389	-45.423		45.516		67.95	BBBB
ATOM	6805	CG			389	-46.132		46.844		70.36	BBBB
MOTA	6806				389	-46.855		47.294		70.58	BBBB
MOTA	6807				389		100.699	47.479		71.79	BBBB
ATOM	6808	C			389	-43.085		46.276		64.96	BBBB
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MOTA	6810	N			390		100.201	45.912		62.65	BBBB
ATOM	6811	CA			390	-40.678		46.683		60.82	BBBB
ATOM	6812	CB			390	-40.015		46.037 46.238		62.90	BBBB
ATOM ATOM	6813 6814	CG			390 390	-40.741 -40.493		47.622		65.63	BBBB
ATOM	6814	CD NE			390	-40.493		47.819		68.10	BBBB.
ATOM	6816	CZ			390	-42.466		47.815		70.05	BBBB
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ATOM	6819	C			390		100.926	46.726		58.79	BBBB
ATOM	6820	ō			390		101.464	45.686		61.19	BBBB
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ATOM	6821	N	THR B	391	-39.221	101.281	47.919	1.00	55.87	BBBB
ATOM	6822	CA	THR B	391	-38.274	102 378	48.068		53.51	BBBB
ATOM	6823	CB								
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ATOM	6824	OG1	THR B	391	-38.906	102.429	50.426	1.00	56.31	BBBB
ATOM	6825	CG2	THR B	391	-39.922	104 057	48.964		53.61	BBBB
ATOM	6826									
		С	THR B			101.956	48.174	1.00	52.09	BBBB
ATOM	6827	0	THR B	391	-35.899	102.805	48.170	1.00	51.90	BBBB
ATOM	6828	N	ASP B	392		100.651	48.276			
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ATOM	6829	CA	ASP B	392	-35.187	100.115	48.335	1.00	47.81	BBBB
ATOM	6830	CB	ASP B	392	-34.687	99.999	49.798	1 00	47.01	BBBB
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ATOM	6832	OD1	ASP B	392	-35.303	98.991	51.881	1.00	42.74	BBBB
ATOM	6833	OD?	ASP B	392	-36.347	98.280	50.096			
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ATOM	6834	С	ASP B	392	-35.181	98.751	47.633	1.00	46.82	BBBB
MOTA	6835	0	ASP B	392	-36.248	98.160	47.425	1.00	46.85	BBBB
ATOM	6836	N	LEU B							
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ATOM	6837	CA	LEU B	393	-33.931	96.959	46.578	1.00	43.60	BBBB
ATOM	6838	CB	LEU B	393	-32.556	96.751	45.947	1 00	40.44	BBBB
MOTA	6839	CG	LEU B	393	-32.165	97.843	44.946	1.00	37.72	BBBB
ATOM	6840	CD1	LEU B	393	-30.779	97.583	44.399	1.00	36.18	BBBB
MOTA	6841		LEU B		-33.186					
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MOTA	6842	С	LEU B	393	-34.212	95.884	47.609	1.00	44.72	BBBB
MOTA	6843	0	LEU B	393	-33.348	95.085	47.942	1.00	44.54	BBBB
MOTA	6844	N	HIS B							
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ATOM	6845	CA	HIS B	394	-35.940	94.985	49.136	1.00	47.88	BBBB
ATOM	6846	CB	HIS B	394	-37.458	95.141	49.274		47.78	
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ATOM	6847	CG	HIS B		-38.013	94.570	50.543	1.00	48.99	BBBB
ATOM	6848	CD2	HIS B	394	-38.791	93.484	50.766	1 00	48.27	BBBB
ATOM	6849		HIS B							
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ATOM	6850	CE1	HIS B	394	-38.351	94.399	52.714	1.00	47.96	BBBB
ATOM	6851	NEC	HIS B	394	-38.985	93.399	52.125		50.60	BBBB
MOTA	6852	С	HIS B	394	-35.607	93.509	48.958	1.00	48.39	BBBB
MOTA	6853	0	HIS B	394	-34.955	92.906	49.815	1.00	48.81	BBBB
ATOM	6854	N	ALA B	305	-36.059	92.930	47.850			
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ATOM	6855	CA	ALA B	395	-35.834	91.514	47.591	1.00	46.34	BBBB
ATOM	6856	CB	ALA B	395	-36.439	91.138	46.245	1 00	45.22	BBBB
ATOM	6857	C	ALA B							
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ATOM	6858	0	ALA B	395	-34.106	89.860	47.759	1.00	45.41	BBBB
ATOM	6859	N	PHE B	396	-33.431	91.998	47.623	1 00	43.04	BBBB
ATOM	6860	CA								
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ATOM	6861	CB	PHE B	396	-31.245	92.386	46.584	1.00	40.33	BBBB
ATOM	6862	CG	PHE B	396	-31.475	91.807	45.232		40.15	BBBB
ATOM										
	6863		PHE B		-31.076	90.505	44.943	1.00	41.35	BBBB
ATOM	6864	CD2	PHE B	396	-32.097	92.551	44.246	1.00	39.20	BBBB
ATOM	6865	CEI	PHE B	396	-31.298	89.952			42.94	
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MOTA	6866		PHE B		-32.327	92.011	42.983	1.00	42.03	BBBB
ATOM	6867	cz	PHE B	396	-31.927	90.709	42.697	1.00	42.45	BBBB
ATOM	6868	С	PHE B	396	-31.380	92.054	49.042	1 00	43.30	BBBB
ATOM	6869	ō								
		U	PHE B		-30.164	92.201	49.145	1.00	42.10	BBBB
ATOM	6870	N	GLU B	397	-32.204	92.214	50.072	1.00	45.16	BBBB
ATOM	6871	CA	GLU B	397	-31.700	92.567	51.397		48.33	BBBB
ATOM	6872	CB	GLU B	391	-32.879	92.846	52.349	1.00	50.79	BBBB
ATOM	6873	CG	GLU B	397	-33.894	91.707	52.475	1.00	53.54	BBBB
ATOM	6874	CD	GLU B		-35.073	92.052	53.392		56.85	
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ATOM	6875		GLU B		-35.909	91.154	53.645	1.00	57.95	BBBB
ATOM	6876	OE2	GLU B	397	-35.167	93.214	53.860	1.00	57.50	BBBB
ATOM	6877	С	GLU B		-30.761	91.508	52.016		48.11	BBBB
ATOM	6878	0	GLU B	397	-30.060	91.778	52.989	1.00	47.29	BBBB
MOTA	6879	N	ASN B	398	-30.739	90.305	51.456	1.00	47.84	BBBB
MOTA	6880	CA	ASN B							
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ATOM	6881	CB	ASN B	398	-30.664	87.986	52.211	1.00	47.68	BBBB
MOTA	6882	CG	ASN B	398	-31.787	88.166	53.216	1.00	49.30	BBBB
ATOM	6883		ASN B		-31.580				51.07	
						88.719	54.300			BBBB
MOTA	6884	ND2	ASN B	398	-32.979	87.699	52.867	1.00	46.82	BBBB
ATOM	6885	С	ASN B	398	-28.636	89.012	51.146	1.00	46.70	BBBB
ATOM	6886									
		0	ASN B		-27.706	88.343	51.583		48.90	BBBB
MOTA	6887	N	LEU B	399	-28.621	89.555	49.935	1.00	43.63	BBBB
ATOM	6888	CA	LEU B		-27.483	89.385	49.042		40.70	BBBB
MOTA	6889	CB	LEU B		-27.684	90.219	47.780	1.00	37.65	BBBB
MOTA	6890	CG	LEU B	399	-26.659	89.989	46.680	1.00	33.44	BBBB
ATOM	6891		LEU B		-26.860	88.603	46.134			BBBB
									31.30	
ATOM	6892	CD2	LEU B	399	-26.834	91.029	45.579	1.00	34.12	BBBB
7 m m /										
MOTA	6893	С	LEU B	399	-26.197	89.814	49.740	1.00	40.33	BBBB
	6893				-26.197	89.814	49.740		40.33	
ATOM ATOM ATOM		C O N	LEU B LEU B GLU B	399	-26.197 -26.077 -25.234	89.814 90.946 88.900	49.740 50.188 49.809	1.00	40.33 39.17 42.82	BBBB BBBB BBBB

ATOM	6896	CA	GLU	В	400	-23.956	89.153	50.475	1.00 42.80	BBBB
ATOM	6897	CB	GLU		400	-23.689	88.090	51.546	1.00 45.26	BBBB
MOTA	6898	CG	GLU		400	-24.930	87.429	52.152	1.00 48.87	BBBB
ATOM	6899	CD	GLU	В	400	-24.590	86.267	53.087	1.00 51.78	BBBB
MOTA	6900	OE1	GLU	В	400	-25.526	85.543	53.515	1.00 51.57	BBBB
ATOM	6901	OE2	GLU	В	400	-23.388	86.081	53.394	1.00 51.61	BBBB
	6902	C	GLU		400	-22.801	89.113	49.502	1.00 41.76	BBBB
ATOM										
MOTA	6903	0	GLU		400	-21.797	89.786	49.708	1.00 42.02	BBBB
ATOM	6904	N	ILE	В	401	-22.949	88.321	48.441	1.00 41.77	BBBB
ATOM	6905	CA	ILE	В	401	-21.885	88.154	47.453	1.00 40.52	BBBB
ATOM	6906	CB	ILE			-21.196	86.772	47.619	1.00 41.29	BBBB
MOTA	6907		ILE			-19.938	86.697	46.758	1.00 39.42	BBBB
ATOM	6908	CG1	ILE	В	401	-20.834	86.539	49.082	1.00 44.31	BBBB
ATOM	6909	CD1	ILE	В	401	-20.242	85.170	49.351	1.00 47.18	BBBB
ATOM	6910	С	ILE			-22.270	88.248	45.977	1.00 39.81	BBBB
ATOM	6911		ILE			-23.274	87.682	45.539	1.00 39.51	BBBB
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ATOM	6912	N	ILE			-21.438	88.958	45.223	1.00 37.78	BBBB
ATOM	6913	CA	ILE	В	402	-21.581	89.090	43.780	1.00 37.35	BBBB
ATOM	6914	CB	ILE	В	402	-21.975	90.536	43.323	1.00 35.22	BBBB
ATOM	6915	CG2	ILE	R	402	-22.105	90.569	41.808	1.00 32.69	BBBB
								43.917	1.00 34.24	BBBB
ATOM	6916		ILE		402	-23.322	90.958			
MOTA	6917	CD1	ILE	В	402	-23.733	92.378	43.553	1.00 31.98	BBBB
ATOM	6918	С	ILE	В	402	-20.159	88.805	43.296	1.00 38.11	BBBB
ATOM	6919	0	ILE	В	402	-19.256	89.615	43.508	1.00 38.52	BBBB
ATOM	6920	N	ARG			-19.942	87.663	42.661	1.00 38.43	BBBB
ATOM	6921	CA	ARG			-18.596	87.343	42.208	1.00 40.22	. BBBB
ATOM	6922	CB	ARG	В	403	-18.436	85.827	42.060	1.00 40.88	BBBB
MOTA	6923	CG	ARG	В	403	-18.675	85.129	43.378	1.00 40.11	BBBB
ATOM	6924	CD	ARG		403	-18,276	83.671	43.406	1.00 44.54	BBBB
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ATOM	6925	NE	ARG		403	-18.598	83.125	44.723	1.00 46.61	
ATOM	6926	CZ	ARG	В	403	-17.938	83.428	45.834	1.00 45.82	BBBB
ATOM	6927	NH1	ARG	В	403	-16.900	84.253	45.790	1.00 43.42	BBBB
ATOM	6928	NH2	ARG	R	403	-18.359	82.959	46.997	1.00 45.94	BBBB
ATOM	6929	C	ARG			-18.192	88.061	40.932	1.00 41.88	BBBB
ATOM	6930	0	ARG			-17.042	88.491	40.803	1.00 44.56	BBBB
ATOM	6931	N	GLY	В	404	-19.125	88.198	39.992	1.00 41.51	BBBB
ATOM	6932	CA	GLY	В	404	-18.822	88.901	38.757	1.00 38.91	BBBB
ATOM	6933	С	GLY	B	404	-17.971	88.120	37.779	1.00 38.00	BBBB
	6934	ō	GLY			-17.163	88.693	37.047	1.00 36.22	BBBB
ATOM										
MOTA	6935	N	ARG			-18.156	86.806	37.756	1.00 38.70	BBBB
MOTA	6936	CA	ARG	В	405	-17.389	85.969	36.844	1.00 39.49	BBBB
ATOM	6937	CB	ARG	В	405	-17.634	84.493	37.158	1.00 38.96	BBBB
ATOM	6938	CG	ARG			-17.008	84.084	38.482	1.00 40.18	BBBB
				_						
ATOM	6939_	CD	ARG			-17.285	82.638	38.830	1.00 44.87	BBBB
ATOM	6940	NE	ARG	В	405	-16.886	82.343	40.207	1.00 46.94	BBBB
ATOM	6941	CZ	ARG	В	405	-17.357	81.321	40.914	1.00 46.56	BBBB
MOTA	6942	NH1	ARG	В	405	-18.235	80.492	40.368	1.00 45.71	BBBB
ATOM	6943		ARG			-16.985	81.149	42.175	1.00 46.42	BBBB
										BBBB
ATOM	6944	С	ARG			-17.789	86.312	35.420	1.00 39.86	
ATOM	6945	0	ARG	В	405	-17.064	86.053	34.465	1.00 40.56	BBBB
ATOM	6946	N	THR	В	406	-18.960	86.917	35.300	1.00 40.15	BBBB
ATOM	6947	CA	THR			-19.493	87.349	34.028	1.00 38.73	BBBB
		СВ	THR			-20.703	86.510	33.633	1.00 38.35	BBBB
ATOM	6948									
ATOM	6949		THR			-21.579	86.399	34.757	1.00 40.45	BBBB
ATOM	6950	CG2	THR			-20.279	85.122	33.199	1.00 37.02	BBBB
ATOM	6951	С	THR	В	406	-19.917	88.766	34.355	1.00 40.18	BBBB
ATOM	6952	0	THR	R	406	-20.298	89.041	35.482	1.00 40.56	BBBB
			LYS			-19.844	89.669	33.389	1.00 40.80	BBBB
ATOM	6953	N								
MOTA	6954	CA	LYS			-20.201	91.051	33.642	1.00 41.10	BBBB
ATOM	6955	CB	LYS	В	407	-18.929	91.871	33.816	1.00 41.66	BBBB
ATOM	6956	CG	LYS	В	407	-17.879	91.166	34.608	1.00 41.33	BBBB
ATOM	6957	CD	LYS			-16.566	91.903	34.529	1.00 42.57	BBBB
						-15.462		35.251	1.00 41.59	BBBB
ATOM	6958	CE	LYS				91.142			
ATOM	6959	NZ	LYS			-14.148	91.764	34.936	1.00 45.32	BBBB
ATOM	6960	С	LYS	В	407	~21.018	91.628	32.491	1.00 42.17	BBBB
ATOM	6961	0	LYS	В	407	-20.843	91.224	31.335	1.00 43.24	BBBB
ATOM	6962	N			408	-21.911	92.564	32.809	1.00 40.01	BBBB
									1.00 38.32	BBBB
ATOM	6963	CA			408	-22.722	93.195	31.782		
MOTA	6964	CB			408	-23.832	94.048	32.391	1.00 38.29	BBBB
ATOM	6965	CG	GLN	В	408	-24.484	94.982	31.390	1.00 39.28	BBBB
ATOM	6966	CD	GLN	В	408	-25.340	94.264	30.365	1.00 41.49	BBBB
ATOM	6967		GLN			-24.975	93.200	29.859	1.00 40.36	BBBB
									1.00 41.31	BBBB
ATOM	6968		GLN			-26.487	94.856	30.040		
ATOM	6969	С			408 .	-21.798	94.063	30.961	1.00 37.50	BBBB
MOTA	6970	0	GLN	В	408	-21.079	94.908	31.503	1.00 36.28	BBBB

ATOM	6971	N	HIS B	409	-21.825	93.831	29.650	1.00	38.03	BBBB
ATOM	6972	CA	HIS B	400	-20.993	94.538				
							28.682		38.12	BBBB
ATOM	6973	CB	HIS B	409	-21.302	96.033	28.704	1.00	38.22	BBBB
ATOM	6974	CG	HIS B	409	-22.647	96.364	28.129	1 00	40.86	BBBB
ATOM	6975									
			HIS B		-23.429	95.687	27.252	1.00	39.33	BBBB
ATOM	6976	ND1	HIS B	409	-23.362	97.487	28.493	1.00	39.97	BBBB
ATOM	6977	CE 1	HIS B	409	-24.527	97.481	27.871	1 00	41.23	BBBB
ATOM	6978	NE2	HIS B	409	-24.593	96.400	27.113	1.00	38.79	BBBB
ATOM	6979	С	HIS B	409	-19.523	94.281	28.930	1.00	39.37	BBBB
ATOM	6980	0	HIS B	400	-18.663	95.023				
							28.460		41.26	BBBB
ATOM	6981	N	GLY B	410	-19.239	93.201	29.652	1.00	39.38	BBBB
ATOM	6982	CA	GLY B	410	-17.870	92.854	29.945	1 00	40.69	BBBB
ATOM										
	6983	С	GLY B		-17.256	93.844	30.910		42.15	BBBB
MOTA	6984	0	GLY B	410	-16.042	93.914	31.050	1.00	43.09	BBBB
ATOM	6985	N	GLN B	411	-18.083	94.618	31.597	1 00	43.04	BBBB
ATOM										
	6986	CA	GLN B		-17.521	95.579	32.525	1.00	42.50	BBBB
ATOM	6987	CB	GLN B	411	-17.524	96.973	31.908	1.00	41.87	BBBB
ATOM	6988	CG	GLN B	411	-16.871	98.002	32.801	1 00	43.73	BBBB
ATOM	6989	CD	GLN B		-16.766	99.347	32.144	1.00	46.19	BBBB
ATOM	6990	OE1	GLN B	411	-16.684	99.441	30.918	1.00	50.30	BBBB
ATOM	6991	NE.2	GLN B	411	-16 746	100.404	32.948		46.99	BBBB
ATOM	6992									
		С	GLN B		-18.163	95.660	33.899	1.00	42.41	BBBB
ATOM	6993	0	GLN B	411	-17.471	95.942	34.881	1.00	43.77	BBBB
MOTA	6994	N	PHE B	412	-19.459	95.391	33.998		40.67	BBBB
ATOM	6995	CA	PHE B		-20.095	95.555	35.292	1.00	38.97	BBBB
ATOM	6996	CB	PHE B	412	-21.125	96.675	35.211	1.00	36.67	BBBB
ATOM	6997	CG	PHE B	412	-20.634	97.905	34.507		36.34	
										BBBB
ATOM	6998	CD1	PHE B	412	-20.598	97.959	33.110	1.00	37.08	BBBB
ATOM	6999	CD2	PHE B	412	-20.264	99.037	35.229	1.00	37.04	BBBB
ATOM	7000	CE1	PHE B		-20.213					
						99.130	32.445		36.17	BBBB
ATOM	7001	CE2	PHE B	412	-19.876	100.217	34.571	1.00	36. <b>51</b>	BBBB
ATOM	7002	CZ	PHE B	412	-19.854	100.263	33.182	1.00	34.91	BBBB
ATOM	7003	С	PHE B		-20.732	94.354	35.943		40.01	
										BBBB
ATOM	7004	0	PHE B	412	-21.360	93.516	35.291	1.00	41.72	BBBB
ATOM	7005	N	SER B	413	-20.571	94.293	37.260	1.00	39.28	BBBB
ATOM	7006	CA	SER B		-21.124	93.209	38.049		37.66	
										BBBB
MOTA	7007	CB	SER B	413	-20.056	92.661	39.000	1.00	39.67	BBBB
ATOM	7008	OG	SER B	413	-19.203	93.697	39.459	1.00	41.64	BBBB
ATOM	7009	C	SER B		-22.336					
						93.728	38.811		35.28	BBBB
MOTA	7010	0	SER B	413	-23.185	92.949	39.230	1.00	34.67	BBBB
ATOM	7011	N	LEU B	414	-22.395	95.044	39.006	1.00	32.55	BBBB
ATOM	7012	CA	LEU B		-23.541	95.675				
							39.665		32.56	BBBB
MOTA	7013	CB	LEU B	414	-23.245	96.091	41.110	1.00	31.14	BBBB
ATOM	7014	CG	LEU B	414	-24.531	96.537	41.821	1.00	29.60	BBBB
ATOM	7015	CD1	LEU B	7777	-25.481	95.354	41.901		30.387	
ATOM	7016	CD2	LEU B	414	-24.247	97.069	43.198	1.00	25.24	BBBB
ATOM	7017	С	LEU B	414	-23.948	96.916	38.861	1.00	34.14	BBBB
ATOM	7018	0	LEU B	414	-23.169	97.860	38.678	1 00	33.24	BBBB
ATOM	7019	И	ALA B		-25.174	96.882	38.358	1.00	34.74	BBBB
MOTA	7020	CA	ALA B	415	-25.707	97.973	37.573	1.00	34.11	BBBB
ATOM	7021	CB	ALA B	415	-25.638	97.636	36.108		34.15	BBBB
MOTA	7022	C	ALA B		-27.146	98.227	37.987	1.00	34.36	BBBB
ATOM	7023	0	ALA B	415	-28.049	97.447	37.678	1.00	34.06	BBBB
ATOM	7024	N	VAL B	416	-27.339	99.308	38.725	1.00	33.37	BBBB
ATOM	7025	CA	VAL B		-28.655	99.706	39.166		33.91	BBBB
ATOM	7026	CB	VAL B	416	-28.692	99.876	40.676	1.00	31.46	BBBB
ATOM	7027	CG1	VAL B	416	-30.104	100.166	41.130	1 00	30.77	BBBB
ATOM	7028		VAL B		-28.178	98.610	41.328		31.56	BBBB
MOTA	7029	С	VAL B	416	-28.808	101.039	38.461	1.00	35.77	BBBB
ATOM	7030	0	VAL B	416	-28.041	101.974	38.716	1 00	37.67	BBBB
ATOM	7031		VAL B							
		N				101.115	37.555		35.55	BBBB
ATOM	7032	CA	VAL B	417	-29.984	102.320	36.762	1.00	34.87	BBBB
ATOM	7033	CB	VAL B	417		102.108	35.331	1.00	33.89	BBBB
ATOM	7034									
			VAL B			103.292	34.469		37.18	BBBB
ATOM	7035	CG2	VAL B	417	-27.937	101.906	35.360	1.00	33.52	BBBB
ATOM	7036	С	VAL B			102.843	36.628		35.87	BBBB
ATOM	7037	0	VAL B			102.081	36.460		35.70	BBBB
ATOM	7038	N	SER B	418	-31.523	104.165	36.694	1.00	37.69	BBBB
ATOM	7039	CA	SER B			104.879	36.521		38.58	BBBB
ATOM	7040	CB	SER B			105.012	35.030	1.00	39.14	BBBB
ATOM	7041	OG	SER B	418	-33.352	103.745	34.471	1.00	38.70	BBBB
ATOM	7042	C	SER B			104.333	37.216		38.89	BBBB
ATOM	7043	0	SER B			104.140	36.587		38.12	BBBB
ATOM	7044	N	LEU B	419	-33.905	104.113	38.520	1.00	40.62	BBBB
ATOM	7045	CA	LEU B	419	-35.016	103.602	39.308		41.29	BBBB

ATOM	7046	CB	LEU B	419	-34.535	102.463	40.204	1.00 40.51	BBBB
ATOM	7047	CG	LEU B		-33.874	101.261	39.541	1.00 37.61	BBBB
ATOM	7048		LEU B		-33.539		40.632	1.00 38.77	BBBB
ATOM	7049		LEU B		-34.808		38.506	1.00 36.23	BBBB
ATOM	7050	C	LEU B		-35.527		40.172	1.00 42.06	BBBB
ATOM	7051	Ö	LEU B		-34.879		40.248	1.00 42.42	BBBB
ATOM	7052	И	ASN B		-36.672		40.823	1.00 43.61	BBBB
ATOM	7053	CA	ASN B		-37.240		41.691	1.00 45.79	BBBB
	7054	CB	ASN B		-38.769		41.482	1.00 49.03	BBBB
MOTA					-39.147		40.156	1.00 53.79	BBBB
ATOM	7055	CG	ASN B						BBBB
ATOM	7056		ASN B		-38.557		39.771	1.00 54.41	BBBB
ATOM	7057		ASN B		-40.155		39.464	1.00 54.96	
MOTA	7058	С	ASN B		-36.973		43.174	1.00 45.79	BBBB
MOTA	7059	0	ASN B		-37.564		44.039	1.00 46.59	BBBB
ATOM	7060	N	ILE B		-36.102		43.472	1.00 45.70	BBBB
MOTA	7061	CA	ILE B		-35.786		44.865	1.00 43.29	BBBB
ATOM	7062	CB	ILE B		-34.838		44.962	1.00 42.43	BBBB
MOTA	7063		ILE B		-35.518		44.423	1.00 43.00	BBBB
ATOM	7064	CG1			-33.540		44.216	1.00 41.33	BBBB
MOTA	7065	CD1	ILE B		-32.463		44.428	1.00 41.72	BBBB
ATOM	7066	С	ILE B	421	-35.134	105.123	45.652	1.00 44.00	BBBB
ATOM	7067	0	ILE B	421	-34.467	106.001	45.088	1.00 41.88	BBBB
ATOM	7068	N	THR B	422	-35.320	105.089	46.967	1.00 44.20	BBBB
ATOM	7069	CA	THR B	422	-34.773	106.111	47.843	1.00 45.31	BBBB
ATOM	7070	CB	THR B	422	-35.752	106.425	48.970	1.00 46.63	BBBB
ATOM	7071	OG1	THR B		-36.990	106.853	48.397	1.00 48.59	BBBB
ATOM	7072	CG2			-35.210	107.532	49.851	1.00 47.47	BBBB
ATOM	7073	С	THR B		-33.437		48.442	1.00 43.69	BBBB
ATOM	7074	ō	THR B		-32.591		48.747	1.00 43.45	BBBB
ATOM	7075	N	SER B			104.393	48.601	1.00 41.95	BBBB
ATOM	7076	CA	SER B			103.855	49.157	1.00 40.37	BBBB
	7077	CB	SER B			103.799	50.686	1.00 39.55	BBBB
MOTA		OG	SER B			103.008	51.113	1.00 36.55	BBBB
ATOM	7078					102.463	48.608	1.00 38.66	BBBB
ATOM	7079	C	SER B				48.383	1.00 38.58	BBBB
ATOM	7080	0	SER B			101.692		1.00 35.73	BBBB
ATOM	7081	N	LEU B			102.143	48.393		BBBB
ATOM	7082	CA	LEU B			100.838	47.863	1.00 33.90	BBBB
ATOM	7083	CB	LEU B			100.732	47.715	1.00 31.12	
ATOM	7084	CG	LEU E			101.651	46.590	1.00 29.08	BBBB
MOTA	7085		LEU E			101.444	46.328	1.00 27.70	BBBB
ATOM	7086		LEU E			101.334	45.331	1.00 27.18	BBBB
MOTA	7087	С	LEU E		-30.709	99.705	48.717	1.00 33.70	BBBB
MOTA	7088	0	LEU E	424	-31.399	98.811	48.194	1.00 33.18	BBBB
MOTA	7089	N	GLY E	425	-30.447	99.756	50.024	1.00 32.88	BBBB
MOTA	7090	CA	GLY E	425	-30.960	98.747	50.939	1.00 29.79	BBBB
ATOM	7091	С	GLY E	425	-30.222	97.424	50.897	1.00 31.08	BBBB
MOTA	7092	0	GLY E	425	-30.730	96.406	51.364	1.00 32.47	BBBB
MOTA	7093	N	LEU E	426	-29.029	97.421	50.315	1.00 31.57	BBBB
ATOM	7094	CA	LEU E	426	-28.238	96.202	50.237	1.00 32.92	BBBB
ATOM	7095	CB	LEU E		-27.327	96.262	49.005	1.00 32.16	BBBB
MOTA	7096	CG	LEU E	426	-28.052	96.447	47.654	1.00 31.86	BBBB
ATOM	7097		LEU E		-27.029	96.665	46.544	1.00 29.93	BBBB
ATOM	7098		LEU E		-28.933	95.244	47.336	1.00 28.80	BBBB
ATOM	7099	С	LEU E		-27.426	96.061	51.536	1.00 34.66	BBBB
ATOM	7100	ō	LEU E		-26.190	96.076	51.533	1.00 31.92	BBBB
ATOM	7101	N	ARG E		-28.156	95.928		1.00 37.23	BBBB
ATOM	7102	CA	ARG E		-27.583		53.989	1.00 40.49	BBBB
ATOM	7102	CB	ARG E		-28.703		55.026	1.00 38.97	BBBB
	7103	CG	ARG E		-29.521	96.984	55.139	1.00 43.44	BBBB
ATOM			ARG E		-30.537	96.904		1.00 44.85	BBBB
ATOM	7105	CD					56.088	1.00 50.19	BBBB
ATOM	7106	NE	ARG E		-31.448			1.00 52.96	BBBB
ATOM	7107	CZ	ARG E		-32.435	95.735	55.199	1.00 54.03	BBBB
ATOM	7108		ARG E		-32.657	96.770	54.390		BBBB
ATOM	7109		ARG E		-33.196			1.00 54.60	
MOTA	7110	С	ARG E		-26.615		54.208	1.00 41.40	BBBB
ATOM	7111	0	ARG E		-25.656		54.970	1.00 41.09	BBBB
ATOM	7112	N	SER E		-26.858	93.485	53.551	1.00 40.93	BBBB
MOTA	7113	CA	SER E		-25.984		53.703	1.00 42.78	BBBB
MOTA	7114	CB	SER E		-26.783		53.486	1.00 42.04	BBBB
MOTA	7115	OG	SER E		-27.983			1.00 42.76	BBBB
MOTA	7116	С	SER E	3 428	-24.786		52.746	1.00 43.63	BBBB
MOTA	7117	0	SER E	3 428	-23.813				BBBB
MOTA	7118	N	LEU E	3 429	-24.855			1.00 44.54	BBBB
ATOM	7119	CA	LEU E	3 429	-23.779	93.117			BBBB
MOTA	7120	CB	LEU E	3 429	-24.018		49.689	1.00 43.34	BBBB

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ATOM	7121	CG	LEU B	429	-23.141	94.250	48.436	1.00 42.06	BBBB
ATOM	7122	CD1	LEU B		-23.158	92.891	47.768	1.00 39.39	BBBB
ATOM	7123	CD2			-23.650				
ATOM	7124	C	LEU B				47.491	1.00 40.98	BBBB
ATOM	7125	0	LEU B		-22.410		51.370	1.00 45.50	BBBB
					-22.132	94.236	52.055	1.00 45.45	BBBB
ATOM	7126	N	LYS B		-21.551	92.271	51.151	1.00 47.66	BBBB
ATOM	7127	CA	LYS B		-20.224	92.293	51.742	1.00 49.16	BBBB
ATOM	7128	CB	LYS B		-20.109	91.187	52.795	1.00 52.11	BBBB
ATOM	7129	CG	LYS B		-19.854	91.720	54.197	1.00 57.92	BBBB
ATOM	7130	CD	LYS B	430	-20.897	92.774	54.615	1.00 59.69	BBBB
ATOM	7131	CE	LYS B	430	-20.422	93.602	55.819	1.00 60.90	BBBB
ATOM	7132	ΝZ	LYS B	430	-19.212	94.434	55.509	1.00 60.86	BBBB
ATOM	7133	C	LYS B	430	-19.077	92.182	50.755	1.00 48.01	BBBB
ATOM	7134	0	LYS B	430	-17.950	92.534	51.080	1.00 47.79	BBBB
ATOM	7135	N	GLU B		-19.347	91.698	49.549	1.00 48.09	BBBB
ATOM	7136	CA	GLU B	. –	-18.274	91.565	48.568	1.00 47.33	BBBB
ATOM	7137	CB	GLU B		-17.497	90:264	48.806	1.00 47.33	
ATOM	7138	CG	GLU B			90.134			BBBB
ATOM	7139	CD	GLU B		-16.239		47.958	1.00 53.48	BBBB
ATOM					-15.623	88.746	48.015	1.00 56.84	BBBB
	7140	OE1			-14.551	88.539	47.387	1.00 55.24	BBBB
ATOM	7141	OE2			-16.215	87.865	48.687	1.00 58.61	BBBB
ATOM	7142	С	GLU B		-18.720	91.598	47.114	1.00 45.05	BBBB
MOTA	7143	0	GLU B	_	-19.751	91.040	46.741	1.00 45.88	BBBB
ATOM	7144	N	ILE B	432	-17.917	92.264	46.299	1.00 42.64	BBBB
MOTA	7145	CA	ILE B	432	-18.145	92.364	44.868	1.00 41.60	BBBB
ATOM	7146	CB	ILE B	432	-18.502	93.812	44.453	1.00 42.27	BBBB
MOTA	7147	CG2	ILE B	432	-18.656	93.912	42.945	1.00 42.11	BBBB
ATOM	7148	CG1	ILE B	432	-19.820	94.223	45.104	1.00 39.65	BBBB
ATOM	7149	CD1	ILE B	432	-20.177	95.670	44.864	1.00 44.05	BBBB
ATOM	7150	C	ILE B		-16.771	91.960	44.374	1.00 41.16	BBBB
ATOM	7151	0	ILE B		-15.881	92.789	44.177	1.00 41.10	
ATOM	7152	N	SER B		-16.606	90.652	44.228		BBBB
ATOM	7153	CA	SER B		-15.345			1.00 41.89	BBBB
ATOM	7154	CB	SER B			90.030	43.833	1.00 40.93	BBBB
ATOM	7155	OG			-15.579	88.545	43.582	1.00 39.44	BBBB
ATOM	7156		SER B		-16.370	87.986	44.618	1.00 39.67	BBBB
		С	SER B		-14.631	90.643	42.642	1.00 42.11	BBBB
ATOM	7157	0	SER B		-13.425	90.896	42.701	1.00 41.78	BBBB
ATOM	7158	И	ASP B		-15.367	90.886	41.563	1.00 42.98	BBBB.
ATOM	7159	CA	ASP B	434	-14.754	91.447	40.364	1.00 44.47	BBBB
ATOM	7160	CB	ASP B		-14.333	90.292	39.438	1.00 44.54	BBBB
ATOM	7161	CG	ASP B	434	-13.368	90.723	38.337	1.00 45.04	BBBB
MOTA	7162	OD1	ASP B	434	-12.869	91.866	38.372	1.00 43.36	BBBB
MOTA	7163	OD2	ASP B	434	-13.101	89.897	37.440	1.00 44.63	BBBB
ATOM	7164	С	ASP B	434	-15.745	92.365	39.661	1.00 43.99	BBBB
ATOM	7165	Ó.	ASP B	434	-16.915	92.412	40.030	1.00 45.14	BBBB
ATOM	7166	N	GLY B	435	-15.263	93.113	38.674	1.00 42.80	BBBB
MOTA	7167	CA	GLY B	435	-16.132	93.988	37.908	1.00 41.10	BBBB
MOTA	7168	C	GLY B		-16.469	95.329	38.516	1.00 40.78	BBBB
ATOM	7169	0	GLY B	435	-16.512		39.737	1.00 39.11	BBBB
ATOM	7170	N	ASP B		-16.726	96.305	37.646	1.00 39.55	BBBB
ATOM	7171	CA	ASP B		-17.069		38.068	1.00 33.33	
ATOM	7172	CB	ASP B		-16.771	98.646	36.941		BBBB
ATOM	7173	CG	ASP B		-15.271	98.785	36.667	1.00 39.45	BBBB
ATOM	7174		ASP B					1.00 42.51	BBBB
ATOM	7175		ASP B		-14.480	98.096	37.355	1.00 42.39	BBBB
ATOM	7176		ASP B		-14.887	99.578	35.769	1.00 41.03	BBBB
		C			-18.521	97.780	38.515	1.00 35.59	BBBB
MOTA	7177	0	ASP B		-19.348	96.922	38.216	1.00 35.72	BBBB
MOTA	7178	И	VAL B		-18.803	98.847	39.259	1.00 35.26	BBBB
ATOM	7179	CA	VAL B		-20.134	99.137	39.791	1.00 35.05	BBBB
ATOM	7180	CB	VAL B		-20.112	99.287	41.330	1.00 35.32	BBBB
ATOM	7181	CG1	VAL B	437	-21.461	99.817	41.811	1.00 32.87	BBBB
ATOM	7182	CG2	VAL B	437	-19.763	97.958	41.996	1.00 32.52	BBBB
ATOM	7183	С	VAL B	437	-20.678	100.453	39.246	1.00 34.63	BBBB
ATOM	7184	0	VAL B	437		101.476	39.256	1.00 33.59	BBBB
ATOM	7185	N	ILE B			100.437	38.772	1.00 33.23	BBBB
MOTA	7186	CA	ILE B			101.671	38.276	1.00 32.12	BBBB
ATOM	7187	СВ	ILE B			101.742	36.730	1.00 32.39	BBBB
ATOM	7188		ILE B			100.717	36.188	1.00 32.33	BBBB
ATOM	7189		ILE B			103.168			
ATOM	7190		ILE B				36.319	1.00 34.08	BBBB
ATOM	7191	CDI	ILE B			103.428	34.826	1.00 31.51	BBBB
ATOM	7191					101.881	38.829	1.00 31.17	BBBB
		0	ILE B			101.011	38.766	1.00 29.98	BBBB
ATOM ATOM	7193	N	ILE B			103.054	39.403	1.00 32.92	BBBB
	7194	CA	ILE B			103.425	39.980	1.00 34.64	BBBB
MOTA	7195	CB	ILE B	439	-25.299	103.362	41.518	1.00 31.20	BBBB

ATOM	7196	CG2	ILE B	439	-26.602 103.776	42.138	1.00 27.22	BBBB
ATOM	7197		ILE B		-24.949 101.928	41.926	1.00 29.75	BBBB
ATOM	7198	CD1	ILE B	439	-24.936 101.671	43.383	1.00 32.36	BBBB
ATOM	7199	С	ILE B	439	-25.637 104.834	39.482	1.00 36.91	BBBB
ATOM	7200	0	ILE B	439	-24.959 105.778	39.877	1.00 38.64	BBBB
ATOM	7201	N	SER B	440	-26.587 104.972	38.570	1.00 37.94	BBBB
ATOM	7202	CA	SER B	440	-26.877 106.288	38.031	1.00 38.31	BBBB
ATOM	7203	CB	SER B	440	-25.887 106.633	36.937	1.00 40.88	BBBB
ATOM	7204	OG	SER B	440	-26.180 105.871	35.782	1.00 47.04	BBBB
ATOM	7205	С	SER B		-28.263 106.373	37.451	1.00 37.32	BBBB
ATOM	7206	0	SER B	440	-28.866 105.358	37.107	1.00 35.80	BBBB
ATOM	7207	N	GLY B	441	-28.754 107.596	37.337	1.00 37.58	BBBB
ATOM	7208	CA	GLY B	441	-30.072 107.809	36.790	1.00 39.06	BBBB
ATOM	7209	С	GLY B		-31.182 107.522	37.773	1.00 41.14	BBBB
ATOM	7210	0	GLY B	441	-32.336 107.423		1.00 42.86	BBBB
ATOM	7211	N	ASN B	442	-30.846 107.386	39.053	1.00 41.60	BBBB
ATOM	7212	CA	ASN B	442	-31.851 107.133	40.083	1.00 41.63	BBBB
MOTA	7213	CB	ASN B	442	-31.340 106.080	41.051	1.00 40.50	BBBB
ATOM	7214	CG	ASN B	442	-30.944 104.816	40.356	1.00 38.82	BBBB
ATOM	7215	OD1	ASN B	442	-31.794 104.030		1.00 38.59	BBBB
ATOM	7216		ASN B		-29.645 104.608		1.00 39.70	BBBB
ATOM	7217	С	ASN B	442	-32.064 108.455		1.00 43.32	BBBB
ATOM	7218	0	ASN B		-31.392 108.762		1.00 44.54	BBBB
ATOM	7219	N	LYS B		-33.010 109.233		1.00 46.16	BBBB
ATOM	7220	CA	LYS B		-33.327 110.572		1.00 45.49	BBBB
ATOM	7221	СВ	LYS B		-34.488 111.138		1.00 45.01	BBBB
ATOM	7222	CG	LYS B		-34.296 111.050		1.00 46.89	BBBB
ATOM	7223	CD	LYS B		-33.116 111.88		1.00 48.64	BBBB
ATOM	7224	CE	LYS B		-31.770 111.149		1.00 49.33	BBBB
ATOM	7225	ΝZ	LYS B		-30.721 111.790		1.00 46.87	BBBB
ATOM	7226	C	LYS B		-33.616 110.74		1.00 46.06	BBBB
ATOM .	7227	0	LYS B		-33.438 111.83		1.00 46.30	BBBB
ATOM	7228	N	ASN B		-34.046 109.67		1.00 47.13	BBBB
ATOM	7229	CA	ASN B		-34.355 109.74		1.00 45.90	BBBB
ATOM	7230	CB	ASN B		-35.713 109.11		1.00 44.40	BBBB
ATOM	7231	CG	ASN B	444	-36.777 109.63		1.00 44.40	BBBB
ATOM	7232		ASN B		-36.959 110.849		1.00 46.06	BBBB
ATOM	7233		ASN B		1-37.492 108.72		1.00 43.94	, BBBB
ATOM	7234	C	ASN B		-33.328 109.08		1.00 47.00	BBBB
ATOM	7235	ō	ASN B		-33.407 109.203		1.00 49.87	BBBB
ATOM	7236	N	LEU B		-32.363 108.38		1.00 48.18	BBBB
ATOM	7237	CA	LEU B		-31.348 107.66		1.00 47.04	BBBB
ATOM	7238	СВ	LEU B		-30.498 106.830		1.00 45.61	BBBB
ATOM	7239	CG	LEU B		-29.698 105.74		1.00 42.60	BBBB
ATOM	7240		LEU B		-30.660 104.80		1.00 43.55	BBBB
ATOM	7241		LEU B		-28.858 105.01		1.00 45.05	BBBB
ATOM	7242	С	LEU B	445	-30.440 108.57		1.00 47.04	BBBB
ATOM	7243	0	LEU B	445	-29.846 109.48	45.697	1.00 46.49	BBBB
ATOM	7244	N	CYS B	446	-30.277 108.28	3 47.549	1.00 47.40	BBBB
ATOM	7245	CA	CYS B		-29.454 109.14		1.00 48.48	BBBB
MOTA	7246	С	CYS B		-28.188 108.68		1.00 48.34	BBBB
ATOM	7247	0	CYS B		-27.424 109.543	L 49.581	1.00 50.92	BBBB
ATOM	7248	CB	CYS B		-30.339 109.81		1.00 48.99	BBBB
ATOM	7249	SG	CYS B		-31.109 111.36		1.00 50.60	BBBB
ATOM	7250	N	TYR B		-27.913 107.40		1.00 46.98	BBBB
MOTA	7251	CA	TYR B	447	-26.720 107.07	50.051	1.00 45.51	BBBB
ATOM	7252	CB	TYR B	447	-27.124 106.29	51.298	1.00 42.08	BBBB
ATOM	7253	CG	TYR B		-28.367 106.81	3 51.978	1.00 39.46	BBBB
ATOM	7254	, CD1	TYR B		-29.629 106.35	7 51.611	1.00 37.47	BBBB
MOTA	7255	CE1	TYR B	447	-30.776 106.86	7 52.196	1.00 35.90	BBBB
MOTA	7256		TYR B		-28.285 107.80		1.00 37.08	BBBB
ATOM	7257		TYR B		-29.423 108.32	3 53.546	1.00 34.98	BBBB
ATOM	7258	CZ	TYR B		-30.666 107.85		1.00 36.15	BBBB
MOTA	7259	OH	TYR B		-31.805 108.40	53.712	1.00 37.41	BBBB
ATOM	7260	С	TYR B		-25.579 106.33		1.00 47.03	BBBB
ATOM	7261	0	TYR B		-24.519 106.17		1.00 48.22	BBBB
ATOM	7262	N	ALA B		-25.796 105.89		1.00 45.97	BBBB
ATOM	7263	CA	ALA B		-24.795 105.15		1.00 43.61	BBBB
ATOM	7264	СВ	ALA B		-25.153 105.14		1.00 42.64	BBBB
ATOM	7265	C	ALA B		-23.379 105.67		1.00 44.19	BBBB
ATOM	7266	ō	ALA B		-22.418 104.90		1.00 43.70	BBBB
ATOM	7267	N	ASN B		-23.237 106.96		1.00 45.56	BBBB
ATOM	7268	CA	ASN B		-21.904 107.54		1.00 48.58	BBBB
ATOM	7269	СВ	ASN B				1.00 50.13	BBBB
ATOM	7270	CG	ASN B		-21.756 109.19		1.00 53.23	BBBB

ATOM	7271	OD1	ASN	В	449	-20.660	108.975	45.616	1.00 54.62	BBBB
ATOM	7272		ASN				109.590	45.445	1.00 56.49	BBBB
ATOM	7273	С	ASN			-21.213	107.421	49.363	1.00 48.88	BBBB
ATOM	7274	0	ASN				107.632	49.473	1.00 47.37	BBBB
ATOM ATOM	7275 7276	N CA	THE				107.083	50.387	1.00 49.10	BBBB
ATOM	7277	CB	THR				106.959	51.726	1.00 49.93	BBBB
ATOM	7278				450		107.000	52.748 52.601	1.00 49.47	BBBB
MOTA	7279				450		108.240	52.540	1.00 49.18 1.00 47.37	BBBB BBBB
ATOM	7280	C			450		105.654	51.893	1.00 52.04	BBBB
ATOM	7281	O			450	-19.857	105.524	52.792	1.00 53.34	BBBB
ATOM	7282	N			451		104.682	51.034	1.00 52.31	BBBB
ATOM ATOM	7283 7284	CA			451		103.392	51.114	1.00 53.02	BBBB
ATOM	7285	CB CG2	ILE		451 451		102.299	50.259	1.00 51.69	BBBB
ATOM	7286				451		101.209 101.646	49.842 51.062	1.00 49.89	BBBB
ATOM	7287	CD1	ILE	В	451		102.564	51.426	1.00 50.40 1.00 51.17	BBBB
ATOM	7288	С			451		103.476	50.655	1.00 54.54	BBBB BBBB
ATOM	7289	0			451		104.255	49.762	1.00 55.40	BBBB
ATOM	7290	N			452	-18.017	102.673	51.287	1.00 55.00	BBBB
ATOM	7291	CA			452		102.614	50.911	1.00 55.14	BBBB
ATOM ATOM	7292 7293	CB			452		102.414	52.146	1.00 55.75	BBBB
ATOM	7293	CG OD1	ASN ASN		452		102.254	51.801	1.00 56.98	BBBB
MOTA	7295		ASN				103.061 101.212	51.060	1.00 57.40	BBBB
ATOM	7296	C			452		101.212	52.337 49.991	1.00 57.60 1.00 54.34	BBBB
ATOM	7297	0			452		100.332	50.386	1.00 55.32	BBBB BBBB
MOTA	7298	N	TRP	В	453		101.574	48.761	1.00 52.06	BBBB
MOTA	7299	CA			453	-17.019	100.493	47.797	1.00 50.19	BBBB
ATOM	7300	CB			453		101.020	46.441	1.00 46.05	BBBB
MOTA MOTA	7301	CG			453		101.556	46.490	1.00 42.04	BBBB
ATOM	7302 7303	CE2	TRP		453 453		100.802	46.343	1.00 38.00	BBBB
ATOM	7304	CE3			453	-20.401	101.705 99.453	46.500	1.00 36.39	BBBB
MOTA	7305		TRP				102.848	46.094 46.726	1.00 37.73 1.00 39.59	BBBB
ATOM	7306	NE1			453		102.943	46.733	1.00 39.39	BBBB BBBB
ATOM	7307	CZ2	TRP	В	453		101.305	46.415	1.00 34.14	BBBB
ATOM	7308		TRP		453	-21.738	99.054	46.009	1.00 37.46	BBBB
ATOM	7309		TRP		453	-22.784	99.982	46.168	1.00 34.45	BBBB
ATOM ATOM	7310 7311	C 0	TRP		453 453	-15.716	99.732	47.641	1.00 51.05	BBBB
ATOM	7311	И	LYS		453	-15.730 -14.593	98.508 100.440	47.548	1.00 51.51	BBBB
ATOM	7313	CA	LYS		454	-13.294	99.789	47.625 47.480	1.00 52.52 1.00 55.18	BBBB
MOTA	7314	CB	LYS		454		100.837	47.505	1.00 56.46	BBBB BBBB
MOTA	7315	CG ~	LYS	В	454		101.587	46.172	1.00 60.95	BBBB
MOTA	7316	CD	LYS		454	-11.204	102.865	46.305	1.00 61.51	BBBB
ATOM	7317	CE	LYS		454		103.565	44.964	0.01 61.57	BBBB
ATOM ATOM	7318	NZ	LYS				102.703	43.966	0.01 61.70	BBBB
ATOM	7319 7320	С О	LYS LYS			-13.039 -12.185	98.710	48.537	1.00 55.30	BBBB
ATOM	7321	N	LYS			-13.792	97.854 98.745	48.364 49.624	1.00 55.50	BBBB
MOTA	7322	CA			455	-13.634	97.762	50.683	1.00 56.65 1.00 58.08	BBBB BBBB
MOTA	7323	CB	LYS			-14.327	98.251	51.964	1.00 60.33	BBBB
MOTA	7324	CG	LYS	В	455	-14.247	97.289	53.145	1.00 63.92	BBBB
ATOM	7325	CD	LYS			-15.343	96.219	53.102	1.00 68.41	BBBB
ATOM	7326	CE	LYS			-15.041	95.068	54.063	1.00 69.81	BBBB
ATOM ATOM	7327 7328	NZ	LYS			-14.762	95.547	55.462	1.00 72.07	BBBB
ATOM	7328	С 0	LYS LYS			-14.228	96.434	50.251	1.00 57.88	BBBB
ATOM	7330	N			456	-13.790 -15.221	95.377 96.488	50.698 49.371	1.00 59.14	BBBB
ATOM	7331	CA	LEU			-15.885	95.278	48.907	1.00 57.31 1.00 55.36	BBBB BBBB
ATOM	7332	CB	LEU			-17.362	95.575	48.640	1.00 55.64	BBBB
ATOM	7333	CG	LEU	В	456	-18.112	96.362	49.717	1.00 55.20	BBBB
ATOM	7334	CD1				-19.539	96.614	49.283	1.00 54.18	BBBB
ATOM	7335	CD2				-18.088	95.583	51.011	1.00 55.57	BBBB
ATOM ATOM	7336 7337	C	LEU			-15.259	94.693	47.648	1.00 54.10	BBBB
ATOM	7337	O N	LEU PHE			-15.684	93.638	47.188	1.00 53.37	BBBB
ATOM	7339	CA	PHE			-14.246 -13.584	95.370	47.107	1.00 53.79	BBBB
ATOM	7340	CB	PHE			-13.384	94.940 96.166	45.874 45.085	1.00 54.54 1.00 51.81	BBBB BBBB
MOTA	7341	CG	PHE			-14.234	97.037	44.591	1.00 51.81	BBBB
ATOM	7342	CD1	PHE	В	457	-15.543	96.563	44.540	1.00 51.41	BBBB
ATOM	7343	CD2	PHE	В	457	-13.980	98.333	44.164	1.00 51.62	BBBB
ATOM	7344	CE1	PHE	В	457	-16.579	97.369	44.073	1.00 50.09	BBBB
ATOM	7345	CE2	PHE	В	457	-15.012	99.147	43.695	1.00 51.25	BBBB

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ATOM	7346	CZ	PHE :	3 457	-16	.311	98.662	43.651	1.00 49	.17	BBBB
ATOM	7347	С	PHE !	3 457	-12	.408	93.972	46.015	1.00 56	.25	BBBB
MOTA	7348	0	PHE !			.320		46.433	1.00 57		BBBB
ATOM ATOM	7349 7350	N CA	GLY I			.616		45.617	1.00 57 1.00 58		BBBB BBBB
ATOM	7351	C	GLY I			.557 .636		45.716 44.513	1.00 58		BBBB
ATOM	7352	o	GLY I			.834	90.623	44.471	1.00 57		BBBB
MOTA	7353	N	THR 1			.739		43.543	1.00 58		BBBB
MOTA	7354	CA	THR 1			. 908	92.432	42.335	1.00 58	.35	BBBB
ATOM	7355	CB	THR I			.701		41.125	1.00 57		BBBB
ATOM	7356	OG1				.169		41.397	1.00 57		BBBB
ATOM ATOM	7357 7358	CG2 C	THR I			.824 .347	91.885 93.806	39.882 41.962	1.00 54 1.00 59		BBBB BBBB
MOTA	7359	Ö	THR			0.072		41.929	1.00 53		BBBB
ATOM	7360	N	SER I			.051		41.682	1.00 60		BBBB
ATOM	7361	CA	SER I			.411		41.315	1.00 60	. 37	BBBB
ATOM	7362	CB	SER I			.946		40.956	1.00 61		BBBB
ATOM	7363	OG	SER I			.844	93.937	39.897	1.00 63		BBBB
ATOM	7364	C	SER I			.130		40.124	1.00 58		BBBB
ATOM ATOM	7365 7366	N O	SER I			.667 .154	95.019 97.061	39.287 40.060	1.00 59 1.00 57		BBBB BBBB
MOTA	7367	CA	GLY I			.801	97.734	38.949	1.00 56		BBBB
MOTA	7368	C	GLY I	3 461		.256		39.134	1.00 54		BBBB
MOTA	7369	0	GLY I			.693		38.606	1.00 55	.38	BBBB
ATOM	7370	N	GLN I			.012		39.865	1.00 52		BBBB
ATOM	7371	CA	GLN I			.418		40.100	1.00 50		BBBB
ATOM ATOM	7372 7373	CB CG	GLN I			.968 .163		41.219	1.00 48		BBBB BBBB
ATOM	7374	CD	GLN I			.717		41.916	1.00 47		BBBB
ATOM	7375	OE1	GLN I			.039		42.899	1.00 48		BBBB
MOTA	7376	NE2	GLN i	3 462	-14	.964	94.013	41.766	1.00 50	.35	BBBB
MOTA	7377	С	GLN I			.636		40.455	1.00 50		BBBB
ATOM	7378	0	GLN I			.827		41.166	1.00 50		BBBB
ATOM ATOM	7379 7380	N CA	LYS I			0.717	99.652 101.042	39.930 40.201	1.00 49		BBBB BBBB
ATOM	7381	CB	LYS				101.042	39.158	1.00 49		BBBB
ATOM	7382	CG	LYS				101.650	37.726	1.00 53		BBBB
MOTA	7383	CD	LYS	3 463	-13	.312	102.745	36.782	1.00 53	. 49	BBBB
MOTA	7384	CE	LYS 1				102.368	35.317	1.00 54		BBBB
MOTA	7385	NZ	LYS				101.350	34.833	1.00 53		BBBB
ATOM ATOM	7386 7387	C 0	LYS I				101.249	40.241 39.877	1.00 48		BBBB BBBB
ATOM	7388	N	THR I				102.424	40.700	1.00 48		BBBB
MOTA	7389	CA	THR I				102.737	40.787	1.00 48	.52	BBBB
MOTA	7390		THR I				103.053	42.240	1.00 47		BBBB
ATOM	7391	OG1	THR I				104.184	42.713	1.00 48		BBBB
ATOM	7392 7393		THR I				101.882	43.125	1.00 45		BBBB BBBB
ATOM ATOM	7394	С О	THR I				103.935	39.905 39.578	1.00 49		BBBB
ATOM	7395	И	LYS I				104.017	39.500	1.00 49		BBBB
ATOM	7396	CA	LYS I				105.122	38.691	1.00 51		BBBB
MOTA	7397	CB	LYS I				104.708	37.227	1.00 52		BBBB
MOTA	7398	CG	LYS I				105.884	36.291	1.00 55		BBBB
ATOM ATOM	7399 7400	CD	LYS I				105.436	34.842 33.876	1.00 60 1.00 61		BBBB BBBB
ATOM	7400	NZ	LYS !				107.646	34.032	1.00 61		BBBB
ATOM	7402	C	LYS				105.387	39.335	1.00 52		BBBB
MOTA	7403	0	LYS I			.839	104.763	38.999	1.00 56	.02	BBBB
ATOM	7404	N	ILE				106.303	40.288	1.00 51		BBBB
MOTA	7405	CA	ILE I				106.608	41.039	1.00 50		BBBB
ATOM ATOM	7406 7407	CB	ILE				106.210	42.513 43.346	1.00 47		BBBB BBBB
ATOM	7407		ILE I				100.428	42.539	1.00 47		BBBB
ATOM	7409		ILE				104.175	43.889	1.00 47		BBBB
MOTA	7410	С	ILE	3 466	-22		108.078	40.884	1.00 51		BBBB
MOTA	7411	0	ILE 1				108.915	41.695	1.00 52		BBBB
ATOM	7412	N	ILE I				108.381	39.818	1.00 51		BBBB BBBB
ATOM ATOM	7413 7414	CA CB	ILE I				109.751 110.298	39.516 38.427	1.00 52 1.00 53		BBBB
ATOM	7414		ILE				110.298	38.906	1.00 53		BBBB
ATOM	7416		ILE				109.454	37.154	1.00 54		BBBB
ATOM	7417		ILE				109.853	36.004	1.00 53		BBBB
MOTA	7418	C	ILE I				109.874	39.038	1.00 51		BBBB
MOTA	7419	0	ILE I				108.891	38.916	1.00 51		BBBB
ATOM	7420	N	SER I	⇒ 46b	-25	.304	111.107	38.776	1.00 51	. 70	BBBB

ATOM	7421	CA	SER	В	468	-26.640	111.414	38.281	1.00 50.5	54 BBBB
ATOM	7422	CB	SER	В	468		111.042	36.811	1.00 49.8	
MOTA	7423	OG			468		111.621	36.082	1.00 53.3	
ATOM	7424	С			468		110.769	39.030	1.00 49.8	
ATOM	7425	0			468		110.703	38.428	1.00 49.6	
ATOM	7426	N			469		110.698	40.344		
ATOM	7427	CA			469	-29 732	2 110.145		1.00 50.3	
ATOM	7428	CB			469		110.145	41.163	1.00 50.0	
ATOM	7429	CG			469			42.199	1.00 48.5	
ATOM	7430		ASN				107.922	41.563	1.00 46.8	
ATOM	7431		ASN			-28.257		40.860	1.00 47.3	
ATOM	7431	C				-26.287		41.800	1.00 47.0	
ATOM	7433		ASN				111.397	41.835	1.00 49.0	
ATOM		0	ASN				112.472	41.264	1.00 49.6	
	7434	N	ARG				111.286	43.026	1.00 50.0	04 BBBB
ATOM	7435	CA	ARG				112.477	43.706	1.00 50.3	88 BBBB
ATOM	7436	CB	ARG			-31.335	112.119	44.773	1.00 49.1	.9 BBBB
ATOM	7437	CG	ARG				113.333	45.404	1.00 48.8	BBBB
ATOM	7438	CD	ARG				112.977	46.444	1.00 48.2	22 BBBB
ATOM	7439	NE	ARG			-33.347	114.170	47.183	1.00 51.3	85 BBBB
ATOM	7440	CZ	ARG			-33.890	114.165	48.395	1.00 52.9	
ATOM	7441		ARG			-34.128	113.020	49.021	1.00 53.5	
ATOM	7442	NH2	ARG	В	470	-34.183	115.314	48.988	1.00 54.4	
MOTA	7443	C	ARG	В	470	-29.117	113.162	44.346	1.00 52.0	
ATOM	7444	0	ARG	В	470		112.601	45.224	1.00 54.0	
MOTA	7445	N	GLY	В	471		114.375	43.891	1.00 53.0	
ATOM	7446	CA	GLY	В	471		115.126	44.395	1.00 53.6	
ATOM	7447	С	GLY				115.130	45.892		_
ATOM	7448	ō	GLY				115.050		1.00 54.3	
ATOM	7449	N	GLU					46.699	1.00 54.3	
ATOM	7450	CA	GLU				115.248	46.253	1.00 54.2	
ATOM	7451	CB	GLU				115.273	47.642	1.00 55.3	_
ATOM	7452	CG					115.335	47.701	1.00 57.3	
ATOM	7453		GLU				113.978	47.582	1.00 59.8	
ATOM		CD	GLU				113.831	48.556	1.00 60.9	
	7454		GLU				114.168	49.747	1.00 59.9	7 BBBB
ATOM	7455		GLU				113.376	48.135	1.00 60.5	4 BBBB
ATOM	7456	С	GLU			-26.310	116.412	48.476	1.00 54.9	1 BBBB
ATOM	7457	0	GLU			-26.837	116.186	49.574	1.00 54.2	
ATOM	7458	N	ASN			-26.193	117.632	47.954	1.00 54.3	9 BBBB
MOTA	7459	CA	ASN			-26.683	118.828	48.634	1.00 53.6	
ATOM	7460	CB	ASN	В	473	-26.332	120.067	47.827	1.00 54.5	
ATOM	7461	CG	ASN			-24.950	119.996	47.235	1.00 57.5	
MOTA	7462	OD1	ASN	В	473	-24.667	119.132	46.400	1.00 63.7	
MOTA	7463	ND2	ASN	В	473	-24.074	120.901	47.655	1.00 58.0	
MOTA	7464	С	ASN	В	473		118.775	48.822	1.00 52.7	
ATOM	7465	O.	ASN	В	473		119.411	49.722	1.00 53.3	
ATOM	7466	N	SER	В	474		118.009	47.968	1.00 50.2	
ATOM	7467	CA	SER		474		117.875	48.038	1.00 30.2	
ATOM	7468	CB	SER		474		117.442	46.674	1.00 47.3	
ATOM	7469	OG	SER				117.562	46.610	1.00 47.5	
ATOM	7470	C	SER				116.843			
ATOM	7471	Ō	SER				117.010	49.107	1.00 50.1	
ATOM	7472	N	CYS				115.771	49.872	1.00 49.9	
ATOM	7473	CA	CYS				114.731	49.170	1.00 51.4	
ATOM	7474	C	CYS				114.731	50.171	1.00 51.2	
ATOM	7475	0	CYS					51.580	1.00 50.4	
ATOM	7476	СВ	CYS				114.974	52.493	1.00 49.0	
ATOM	7477	SG					113.507	49.938	1.00 50.5	
ATOM	7478		CYS				112.554	48.418	1.00 49.1	
ATOM	7479	И	LYS				116.120	51.754	1.00 49.7	
		CA	LYS				116.728	53.058	1.00 49.5	
MOTA	7480	CB	LYS				117.521	53.038	1.00 50.3	3 BBBB
ATOM	7481	CG	LYS				116.686	52.847	1.00 54.2	9 BBBB
ATOM	7482	CD	LYS				117.530	52.973	1.00 54.7	7 BBBB
ATOM	7483	CE	LYS	В	476		118.197	54.347	1.00 55.8	O BBBB
ATOM	7484	NZ	LYS				118.784	54.619	1.00 56.6	
ATOM	7485	C	LYS	В	476	-29.694	117.670	53.480	1.00 49.7	
MOTA	7486	0	LYS	В	476		117.600	54.615	1.00 49.0	
MOTA	7487	N	ALA			-30.115	118.541	52.559	1.00 49.7	
ATOM	7488	CA	ALA			-31.172	119.527	52.803	1.00 50.1	
MOTA	7489	CB	ALA			-31.527	120.241	51.507	1.00 49.0	
ATOM	7490	C	ALA			-32.429	118.942	53.436	1.00 49.0	
ATOM	7491	Ō	ALA				119.570	54.303		
ATOM	7492	N	THR				117.755	52.997	1.00 52.04	
ATOM	7493	CA	THR				117.733		1.00 52.13	
ATOM	7494	CB	THR			-34.821	116 340 TTTTO	53.571	1.00 54.26	
ATOM	7495		THR				116.348	52.519	1.00 55.62	
*			*****	٠ -		54.040	TT0.T03	51.331	1.00 58.9	4 BBBB

MOTA	7496	CG2	THR					117.089	52.199		57.20	BBBB
ATOM	7497 7498	С 0			478 478			116.121 115.229	54.642		54.84	BBBB BBBB
ATOM ATOM	7499	N			479			116.284	55.036 55.103		55.03 54.31	BBBB
ATOM	7500	CA			479			115.421	56.138		54.32	BBBB
ATOM	7501	C			479			113.954	55.790		55.21	BBBB
MOTA	7502	0			479			113.199	56.429		54.15	BBBB
ATOM ATOM	7503 7504	N CA	GLN GLN		480 480			113.550 112.161	54.760 54.341		55.42 56.09	BBBB BBBB
ATOM	7505	CB	GLN		480			111.969	53.087		57.43	BBBB
ATOM	7506	CG	GLN	В	480	~33	.376	112.601	53.231	1.00	61.13	BBBB
ATOM	7507	CD	GLN		480			111.878	52.452		64.12	BBBB
ATOM ATOM	7508 7509	OE1 NE2	GLN GLN		480 480			112.299 110.774	52.433 51.805		65.51 65.31	BBBB BBBB
ATOM	7510	C	GLN		480			111.752	54.099		55.09	BBBB
ATOM	7511	0	GLN		480			111.484	52.972		54.83	BBBB
ATOM	7512	N			481			111.757	55.202		52.42	BBBB
ATOM ATOM	7513 7514	CA CB	VAL VAL					111.372 112.468	55.244 55.917		49.85 52.52	BBBB BBBB
ATOM	7515	CG1			481			113.635	54.951		51.46	BBBB
ATOM	7516	CG2	VAL		481			112.971	57.194	1.00	50.56	BBBB
ATOM	7517	C			481			110.147	56.131		48.80	BBBB
ATOM ATOM	7518 7519	O N	VAL		481 482			109.776	56.562 56.404		46.41 48.86	BBBB BBBB
ATOM	7520	CA			482			109.312	57.256		47.97	BBBB
MOTA	7521	C			482			108.707	58.689		48.89	BBBB
ATOM	7522	0			482			109.789	59.160		49.63	BBBB
ATOM	7523	CB	CYS		482			107.646 106.908	57.209		47.80 47.91	BBBB
ATOM ATOM	7524 7525	SG N			482 483			107.806	55.589 59.378		49.15	BBBB BBBB
ATOM	7526	CA	HIS		483			108.014	60.768		50.49	BBBB
ATOM	7527	CB	HIS		483			106.740	61.296		50.71	BBBB
ATOM ATOM	7528 7529	CG	HIS		483 483			106.896 106.777	62.620 62.965		50.95 49.32	BBBB BBBB
ATOM	7530		HIS		483			107.144	63.791		50.25	BBBB
ATOM	7531		HIS		483			107.165	64.799		50.71	BBBB
ATOM	7532		HIS		483			106.944	64.326		50.21	BBBB
ATOM ATOM	7533 7534	С 0	HIS		483 483			108.389	61.651 61.252		52.84 51.63	BBBB BBBB
ATOM	7535	N	ALA		484			108.245	62.855		55.11	BBBB
ATOM	7536	CA	ALA		484			109.273	63.782		55.52	BBBB
ATOM	7537	CB	ALA					110.045	64.941		56.68	BBBB
ATOM ATOM	7538 7539	С 0	ALA ALA					108.052 108.106	64.297 64.541		55.34 54.89	BBBB BBBB
ATOM	7540	N	LEU					106.949	64.452	_	54.90	BBBB
MOTA	7541	CA	LEU	В	485			105.709	64.930		56.32	BBBB
ATOM	7542	CB	LEU		485			104.709	65.313		53.86	BBBB
ATOM ATOM	7543 7544	CG CD1	LEU					105.112	66.546 66.699		52.18 51.29	BBBB BBBB
ATOM	7545		LEU					105.002	67.765		51.47	BBBB
MOTA	7546	С			485			105.074	63.908		58.34	BBBB
ATOM	7547	0			485			104.114	64.224		59.16	BBBB
ATOM ATOM	7548 7549	N CA			486 486			105.605	62.687 61.636		61.47 64.37	BBBB BBBB
ATOM	7550	C			486			105.736	61.576		66.24	BBBB
ATOM	7551	0			486			105.612	60.568		67.88	BBBB
ATOM ATOM	7552 7553	CB SG			486 486			105.226 104.411	60.245 59.872		63.26 65.08	BBBB BBBB
ATOM	7554	N			487			104.411	62.623		68.67	BBBB
ATOM	7555	CA			487			107.161	62.641		72.24	BBBB
MOTA	7556	CB			487			107.137	64.069		74.42	BBBB
ATOM ATOM	755 <b>7</b> 7558	OG C			487			108.103 106.580	64.251 61.624		75.71 73.42	BBBB BBBB
ATOM	7559	0			487 487			107.330	60.905		75.18	BBBB
ATOM	7560	N			488			105.238	61.545		72.72	BBBB
ATOM	7561	CD			488			104.261	62.461		73.49	BBBB
ATOM	7562	CA			488			104.542	60.636		72.14	BBBB BBBB
ATOM ATOM	7563 7564	CB CG			488 488			103.106 102.967	60.702 62.129		72.72 74.28	BBBB
ATOM	7565	C			488			105.013	59.187		71.52	BBBB
ATOM	7566	0			488			106.164	58.913		69.00	BBBB
ATOM ATOM	7567 7568	N CA			489 489			104.074	58.270 56.841		70.83 68.87	BBBB BBBB
ATOM	7569	CB			489			104.301	56.263		71.70	BBBB
ATOM	7570	CG			489			103.114	57.111		74.13	BBBB

ATOM	7571	CD	GLU	В	489	-15.18	2 102.214	56.408	1.00 76.18	BBBB
ATOM	7572	OE1			489		5 101.071	56.047	1.00 76.42	BBBB
ATOM	7573	OE2	GLU	В	489	-14.02	7 102.654	56.214	1.00 76.82	BBBB
ATOM	7574	С	GLU	В	489		0 104.121	56.032	1.00 66.15	BBBB
ATOM	7575	0			489	-19.99	7 103.060	55.450	1.00 66.94	BBBB
ATOM	7576	N			490	-20.58	6 105.152	55.992	1.00 61.95	BBBB
ATOM	7577	CA			490	-21.79	0 105.075	55.198	1.00 56.89	BBBB
ATOM	7578	C			490	-22.89	7 104.168	55.665	1.00 52.71	BBBB
ATOM	7579	0			490		1 103.549	56.717	1.00 51.95	BBBB
MOTA	7580	N			491		2 104.089	54.841	1.00 50.86	BBBB
ATOM ATOM	7581	CA			491		4 103.292	55.141	1.00 49.28	BBBB
ATOM	7582 7583	C 0			491 491		1 102.917	53.845	1.00 47.67	BBBB
ATOM	7584	СВ			491		5 103.368	52.781	1.00 48.91	BBBB
ATOM	7585	SG			491		3 104.115	56.017	1.00 49.56	BBBB
ATOM	7586	N			492		5 105.716 D 102.094	55.262	1.00 48.28	BBBB
ATOM	7587	CA			492		3 102.094	53.945	1.00 46.64	BBBB
ATOM	7588	CB			492		7 100.141	52.778 52.717	1.00 45.99	BBBB
ATOM	7589	CG			492	-26.33		52.620	1.00 44.98 1.00 44.70	BBBB
ATOM	7590	CD2	TRP			-25.546		51.433	1.00 45.59	BBBB BBBB
ATOM	7591		TRP			-24.305		51.824	1.00 47.09	BBBB
ATOM	7592		TRP			-25.76		50.077	1.00 42.87	BBBB
ATOM	7593	CD1	TRP	В	492	-25.567		53.651	1.00 46.48	BBBB
ATOM	7594	NE1	TRP	В	492	-24.347		53.183	1.00 46.99	BBBB
MOTA	7595	CZ2	TRP	В	492	-23.286		50.903	1.00 45.29	BBBB
ATOM	7596		TRP			-24.757	99.350	49.166	1.00 44.67	BBBB
ATOM	7597		TRP			-23.529	98.786	49.584	1.00 44.99	BBBB
ATOM	7598	C			492	-28.995	102.246	52.903	1.00 45.90	BBBB
ATOM	7599	0			492		101.948	52.112	1.00 44.61	BBBB
ATOM	7600	N			493		9 103.083	53.914	1.00 45.82	BBBB
ATOM	7601	CA			493		103.677	54.143	1.00 45.93	BBBB
ATOM ATOM	7602	C			493		104.707	55.238	1.00 46.14	BBBB
ATOM	7603 7604	0			493		105.060	55.676	1.00 46.37	BBBB
ATOM	7605	N CD			494 494		105.228	55.683	1.00 46.04	BBBB
ATOM	7606	CA			494		2 105.161	54.986	1.00 43.99	BBBB
ATOM	7607	CB			494		106.232	56.742	1.00 46.43	BBBB
ATOM	7608	CG			494		107.052	56.353	1.00 43.99	BBBB
ATOM	7609	C			494		105.624	55.881	1.00 42.19	BBBB
ATOM	7610	ō			494		105.024	58.153 59.130	1.00 47.77 1.00 47.63	BBBB
ATOM	7611	N	GLU		495		104.459	58.256	1.00 47.63	BBBB
ATOM	7612	CA	GLU		495		103.807	59.551	1.00 47.39	BBBB BBBB
ATOM	7613	CB	GLU		495		102.610	59.413	1.00 44.72	BBBB
ATOM	7614	CG	GLU	В	495		102.992	58.764	1.00 43.90	BBBB
MOTA	7615	CD	GLU	В	495		101.959	58.947	1.00 44.75	BBBB
MOTA	7616	OE1	GLU	В	495		102.210	59.757	1.00 45.50	BBBB
ATOM	7617	OE2	GLU	В	495	-35.924	100.900	58.283	1.00 43.71	BBBB
ATOM	7618	C	GLU		495	-31.169	103.377	60.159	1.00 50.30	BBBB
ATOM	7619	0	GLU		495		103.342	59.475	1.00 50.43	BBBB
ATOM	7620	N			496		103.087	61.467	1.00 51.54	BBBB
ATOM	7621	CD			496		103.376	62.443	1.00 52.26	BBBB
ATOM ATOM	7622 7623	CA			496		102.670	62.152	1.00 52.69	BBBB
ATOM	7624	CB CG	PRO				102.602	63.614	1.00 52.84	BBBB
ATOM	7625	C	PRO PRO				103.643	63.698	1.00 52.52	BBBB
ATOM	7626	o	PRO				101.344	61.671	1.00 53.26	BBBB
ATOM	7627	N	ARG				101.192	61.609	1.00 52.67	BBBB
ATOM	7628	CA	ARG			-29.689		61.326	1.00 52.91	BBBB
ATOM	7629	CB	ARG			-30.766		60.885 61.039	1.00 52.78 1.00 54.40	BBBB
ATOM	7630	CG	ARG			-31.847		59.988	1.00 55.84	BBBB
MOTA	7631	CD	ARG			-31.998		59.548	1.00 58.15	BBBB BBBB
ATOM	7632	NE	ARG			-33.331		59.058	1.00 62.06	BBBB
ATOM	7633	CZ	ARG	В	497	-34.046		58.187	1.00 64.17	BBBB
ATOM	7634	NH1	ARG	В	497	-33.567		57.690	1.00 66.67	BBBB
ATOM	7635	NH2	ARG	В	497	-35.238		57.798	1.00 63.23	BBBB
ATOM	7636	С	ARG	В	497	-29.138		59.477	1.00 52.48	BBBB
ATOM	7637	0	ARG	В	497	-28.590		59.039	1.00 53.32	BBBB
ATOM	7638	N	ASP				100.191	58.762	1.00 52.68	BBBB
ATOM	7639		ASP			-28.735	100.243	57.409	1.00 52.29	BBBB
ATOM	7640		ASP				101.260	56.543	1.00 51.13	BBBB
MOTA	7641	CG	ASP				101.054	56.561	1.00 52.92	BBBB
ATOM	7642		ASP			-31.440		56.570	1.00 53.33	BBBB
ATOM	7643		ASP				102.070	56.552	1.00 52.39	BBBB
ATOM	7644		ASP				100.636	57.487	1.00 53.23	BBBB
ATOM	7645	0	ASP	В	498	-26.610	100.787	56.462	1.00 52.91	BBBB

ATOM	7646	N	CYS	В	499	-26.750	100.809	58.705	1.00 54.96	BBBB
ATOM	7647	CA	CYS		499		101.186	58.897	1.00 57.42	BBBB
ATOM	7648	С	CYS	В	499	-24.448	100.031	58.447	1.00 58.47	BBBB
ATOM	7649	0	CYS	В	499	-24.910	98.903	58.309	1.00 58.45	BBBB
ATOM	7650	CB	CYS	В	499	-25.059	101.498	60.380	1.00 59.92	BBBB
ATOM	7651	SG	CYS	В	499	-25.941	102.890	61.196	1.00 60.05	BBBB
ATOM	7652	N	VAL	В	500	-23.170	100.305	58.204	1.00 60.63	BBBB
ATOM	7653	CA	VAL	В	500	-22.254	99.244	57.795	1.00 64.38	BBBB
ATOM	7654	CB	VAL		500	-21.221	99.740	56.735	1.00 64.47	BBBB
ATOM	7655	CG1	VAL				100.423	55.588	1.00 63.63	BBBB
ATOM	7656	CG2				-20.218		57.359	1.00 65.65	BBBB
ATOM	7657	С			500	-21.530	98.720	59.038	1.00 66.95	BBBB
ATOM	7658	0	VAL			-21.435	97.512	59.253	1.00 67.69	BBBB
ATOM	7659	N	SER	В	501	-21.035	99.640	59.862	1.00 70.01	BBBB
ATOM	7660	CA	SER	В	501	-20.352	99.285	61.101	1.00 71.76	BBBB
ATOM	7661	CB	SER	В	501	-18.873	99.679	61.036	1.00 71.82	BBBB
ATOM	7662	OG	SER	В	501	-18.161	98.861	60.124	1.00 73.69	BBBB
ATOM	7663	С	SER	В	501	-21.032	100.026	62.250	1.00 73.29	BBBB
MOTA	7664	OT1	SER	В	501	-21.833	100.938	61.951	1.00 73.50	BBBB
ATOM	7665	OT2	SER	В	501	-20.759	99.697	63.427	1.00 75.50	BBBB
MOTA	7666	CB	ALA	С	2	34.368	26.190	33.761	1.00 85.67	CCCC
ATOM	7667	С	ALA	С	2	36.630	27.249	33.541	1.00 85.50	CCCC
ATOM	7668	0	ALA	С	2	37.681	27.721	33.983	1.00 86.40	cccc
ATOM	7669	N	ALA	С	2	35.540	27.073	35.756	1.00 85.68	cccc
ATOM	7670	CA	ALA	С	2	35.724	26.405	34.434	1.00 85.79	CCCC
ATOM	7671	N	SER	С	3	36.233	27.439	32.285	1.00 83.91	CCCC
ATOM	7672	CA	SER	С	3	37.036	28.234	31.364	1.00 81.60	CCCC
ATOM	7673	CB	SER	С	3	36.918	27.685	29.939	1.00 81.67	CCCC
ATOM	7674	OG	SER	С	3	37.948	28.196	29.112	1.00 81.47	CCCC
ATOM	7675	C	SER	С	3	36.552	29.678	31.419	1.00 79.57	CCCC
ATOM	7676	0	SER	С	3	37.354	30.607	31.458	1.00 79.56	CCCC
MOTA	7677	N	HIS	С	4	35.236	29.858	31.430	1.00 77.17	CCCC
ATOM	7678	CA	HIS	С	4	34.636	31.187	31.499	1.00 74.71	CCCC
MOTA	7679	CB	HIS	С	4	33.167	31.147	31.061	1.00 73.43	CCCC
MOTA	7680	CG	HIS	С	4	32.952	31.383	29.601	1.00 72.44	CCCC
ATOM	7681	CD2	HIS	С	4	32.392	30.604	28.646	1.00 72.64	CCCC
ATOM	7682	ND1	HIS	С	4	33.305	32.560	28.977	1.00 72.03	CCCC
ATOM	7683	CE1	HIS	C	4	32.971	32.495	27.700	1.00 72.10	CCCC
ATOM	7684	NE2	HIS	С	4	32.416	31.318	27.473	1.00 72.16	CCCC
ATOM	7685	С	HIS	С	4	34.677	31.675	32.935	1.00 74.14	CCCC
ATOM	7686	0	HIS	С	4	34.510	32.866	33.201	1.00 74.16	CCCC
ATOM	7687	N	PHE	С	5	34.901	30.752	33.863	1.00 73.11	CCCC
ATOM	7688	CA	PHE	С	5	34.900	31.112	35.270	1.00 73.13	CCCC
ATOM	7689	CB	PHE	С	5	33.727	30.417	35.972	1.00 71.83	CCCC
MOTA	7690	CG	PHE	-C	5	32.531	30.201	35.081	1.00 70.33	cccc
ATOM	7691	CD1	PHE	С	5	32.424	29.047	34.308	1.00 68.80	CCCC
ATOM	7692	CD2		С	5	31.538	31.177	34.973	1.00 69.68	CCCC
ATOM	7693	CE1	PHE	С	5	31.350	28.871	33.439	1.00 67.89	cccc
ATOM	7694		PHE		5	30.464	31.010	34.108	1.00 67.57	cccc
ATOM	7695	CZ	PHE		5	30.369	29.857	33.340	1.00 67.39	cccc
ATOM	7696	С	PHE		5	36.185	30.809	36.021	1.00 74.23	cccc
ATOM	7697	0	PHE		5	37.143	30.275	35.469	1.00 74.56	CCCC
ATOM	7698	N	ASN		6	36.184	31.168	37.297	1.00 75.75	CCCC
ATOM	7699	CA	ASN		6	37.317	30.955	38.182	1.00 76.84	CCCC
ATOM	7700	CB	ASN		6	38.397	32.010	37.927	1.00 77.88	CCCC
ATOM	7701	CG	ASN		6	. 39.686	31.733	38.686	1.00 78.18	CCCC
ATOM	7702		ASN		6	40.638	32.507	38.605	1.00 78.96	CCCC
ATOM	7703		ASN		6	39.726	30.626	39.422	1.00 77.65	CCCC
ATOM	7704	C	ASN		6	36.779	31.101	39.594	1.00 77.72	CCCC
ATOM	7705	0	ASN		6	35.653	31.567	39.789	1.00 77.34	CCCC
ATOM	7706	N	ASP		7	37.577	30.706	40.579	1.00 78.80	CCCC
ATOM	7707	CA	ASP		7	37.153	30.809	41.966	1.00 78.72	CCCC
ATOM	7708	CB	ASP		7	38.303	30.479	42.922	1.00 82.27	CCCC
MOTA	7709	CG	ASP	C	7	38.513	28.985	43.084	1.00 84.79	CCCC
ATOM	7710		ASP		7	37.553	28.288	43.483	1.00 85.89	CCCC
MOTA	7711		ASP		7	39.637	28.510	42.814	1.00 87.43	CCCC
ATOM	7712	C	ASP		7	36.598	32.182	42.293	1.00 76.61	CCCC
MOTA	7713	0	ASP		7	36.672	33.123	41.502	1.00 75.51	CCCC
MOTA	7714	N	CYS		8	36.055	32.284	43.490	1.00 74.90	CCCC
ATOM	7715	CA	CYS		8	35.441	33.506	43.938	1.00 74.35	CCCC
ATOM	7716	C	CYS		8	35.911	33.778	45.364	1.00 75.50 1.00 75.99	CCCC
ATOM	7717 7718	O CB	CYS		8	35.809	32.917	46.232	1.00 75.99	CCCC
ATOM ATOM	7719	CB SG	CYS CYS		8 8	33.935	33.295	43.864	1.00 70.95	CCCC
ATOM	7720	N N	PRO		9	32.894 36.463	34.711	44.270	1.00 77.32	CCCC
ATON	, , 20	14	ENO	U	פ	30.403	34.972	45.620	1.00 11.02	3300

MOTA	7721	CD	PRO	С	9	36.584	36.144	44.737	1.00 77	.60	CCCC
ATOM	7722	CA	PRO	С	9	36.933	35.282	46.974	1.00 79		CCCC
MOTA	7723	CB	PRO	С	9	37.523	36.679	46.819	1.00 78	.78	CCCC
ATOM	7724	CG	PRO		9	36.685	37.276	45.730	1.00 78	.75	CCCC
ATOM	7725	С	PRO		9	35.793	35.228	47.989	1.00 81	.95	CCCC
ATOM	7726	0	PRO		9	34.955	36.132	48.048	1.00 82	.64	CCCC
ATOM	7727	N	ASP		10	35.770	34.164	48.789	1.00 84		CCCC
ATOM	7728	CA	ASP		10	34.721	33.971	49.790	1.00 86		CCCC
ATOM ATOM	7729	CB	ASP		10	34.739	32.518	50.302	1.00 87		cccc
ATOM	7730 7731	CG	ASP ASP		10	36.073	32.119	50.920	1.00 88		CCCC
ATOM	7732		ASP		10 10	37.126 36.063	32.426	50.320	1.00 87		CCCC
ATOM	7733	C	ASP		10	34.759	31.482	51.998	1.00 87		CCCC
ATOM	7734	ŏ	ASP		10	35.514	34.948 34.768	50.966 51.923	1.00 87 1.00 87		CCCC
ATOM	7735	N	ALA		11	33.927	35.984	50.884	1.00 87		CCCC
ATOM	7736	CA	ALA		11	33.848	36.996	51.933	1.00 88		CCCC
ATOM	7737	CB	ALA		11	33.151	38.245	51.403	1.00 87		CCCC
MOTA	7738	С	ALA	С	11	33.093	36.446	53.141	1.00 88		CCCC
ATOM	7739	0	ALA	С	11	32.532	35.348	53.084	1.00 88		CCCC
ATOM	7740	N	HIS	С	12	33.086	37.205	54.234	1.00 86		CCCC
MOTA	7741	CA	HIS	С	12	32.388	36.780	55.442	1.00 85	.27	CCCC
ATOM	7742	CB	HIS		12	32.645	37.771	56.580	1.00 89	.09	CCCC
ATOM	7743	CG	HIS		12	34.022	37.667	57.163	1.00 92	.34	CCCC
ATOM	7744		HIS		12	34.439	37.387	58.421	1.00 93	.62	CCCC
ATOM	7745		HIS		12	35.164	37.840	56.410	1.00 93		CCCC
ATOM	7746		HIS		12	36.226	37.669	57.178	1.00 94		CCCC
ATOM	7747		HIS		12	35.814	37.393	58.403	1.00 94		CCCC
ATOM ATOM	7748 7749	C 0	HIS		12	30.893	36.642	55.160	1.00 81		CCCC
ATOM	7750	N	HIS THR		12	30.273	35.651	55.555		.40	CCCC
ATOM	7751	CA	THR		13 13	30.316	37.635 37.581	54.483	1.00 76		CCCC
ATOM	7752	CB	THR		13	28.905 28.234	38.963	54.108 54.151	1.00 70		CCCC
ATOM	7753		THR		13	29.008	39.889	53.384	1.00 71		CCCC
ATOM	7754		THR		13	28.107	39.456	55.578	1.00 70		CCCC
ATOM	7755	C	THR		13	28.893	37.072	52.673	1.00 66		CCCC
ATOM	7756	0	THR		13	29.607	37.593	51.820	1.00 64		CCCC
ATOM	7757	N	GLN	С	14	28.087	36.047	52.417	1.00 62		CCCC
ATOM	7758	CA	GLN	C	14	28.009	35.439	51.092	1.00 57		CCCC
ATOM	7759	CB	GLN	С	14	27.251	34.105	51.183	1.00 58		CCCC
MOTA	7760	CG	GLN	С	14	25.784	34.219	51.632	1.00 57	.77	CCCC
MOTA	7761	CD	GLN	С	14	25.204	32.889	52.111	1.00 57	. 44	CCCC
ATOM	7762		GLN	С	14	25.362	31.851	51.462	1.00 57	.93	CCCC
ATOM	7763		GLN	C	14	24.521	32.921	53.247	1.00 56		CCCC
ATOM	7764	C	GLN	C	14	27.379	36.328	50.022	1.00 52		CCCC
ATOM ATOM	7765 7766	0			14	26.513	37.148	50.309	1.00 50		CCCC
ATOM	7767	N CA	PHE	C	15 15	27.843	36.161	48.787		.71	CCCC
ATOM	7768	CB	PHE		15	27.325 28.358	36.919 36.979	47.660 46.544	1.00 47	.37	CCCC
ATOM	7769	CG	PHE		15	27.980	37.903	45.426	1.00 43		CCCC
ATOM	7770		PHE		15	27.621	39.218	45.690	1.00 43		CCCC
ATOM	7771		PHE		15	27.970	37.459	44.112	1.00 42		CCCC
ATOM	7772		PHE		15	27.253	40.080	44.666	1.00 41		CCCC
ATOM	7773	CE2	PHE	С	15	27.604	38.311	43.083	1.00 43		CCCC
ATOM	7774	CZ	PHE	С	15	27.243	39.633	43.363	1.00 42	.24	CCCC
ATOM	7775	С	PHE		15	26.052	36.237	47.150	1.00 46	.41	CCCC
ATOM	7776	0	PHE		15	25.052	36.899	46.856	1.00 44	.93	CCCC
ATOM	7777	N	CYS		16	26.107	34.913	47.057	1.00 43	.06	CCCC
ATOM	7778	CA	CYS		16	24.975	34.122	46.624	1.00 42		CCCC
MOTA	7779	C	CYS		16	24.342	33.467	47.837	1.00 42		CCCC
ATOM	7780	0	CYS		16	24.869	32.504	48.387	1.00 44		CCCC
ATOM ATOM	7781 7782	CB SG	CYS		16	25.418	33.049	45.646	1.00 42		CCCC
ATOM	7783	N N	CYS PHE		16 17	26.407	33.706	44.278	1.00 45		CCCC
ATOM	7784	CA	PHE		17	23.196 22.502	33.990 33.473	48.246 49.400	1.00 42		CCCC
ATOM	7785	CB	PHE		17	21.265	34.307	49.645	1.00 40		CCCC
ATOM	7786	CG	PHE		17	21.538	35.768	49.729	1.00 39		CCCC
ATOM	7787		PHE		17	22.131	36.316	50.861	1.00 37		cccc
ATOM	7788		PHE		17	21.191	36.610	48.684	1.00 39		CCCC
MOTA	7789		PHE		17	22.373	37.685	50.952	1.00 35		CCCC
MOTA	7790		PHE	С	17	21.431	37.987	48.766	1.00 39		CCCC
MOTA	7791	CZ	PHE		17	22.022	38.518	49.904	1.00 37	.99	CCCC
MOTA	7792	С	PHE		17	22.119	32.010	49.298	1.00 41	. 94	CCCC
MOTA	7793	0	PHE		17	22.137	31.300	50.297	1.00 44		CCCC
ATOM	7794	И	HIS		18	21.762	31.540	48.110	1.00 42		CCCC
MOTA	7795	CA	HIS	C	18	21.371	30.136	47.980	1.00 42	.88	cccc

ATOM	7796	СВ	HIS	C 1	.8	19.848	29.998	48.036	1.00 41.44	CCCC
ATOM	7797	CG	HIS		.8	19.230	30.626	49.248	1.00 42.01	CCCC
ATOM	7798	CD2			.8	18.720	31.867	49.446	1.00 40.85	CCCC
ATOM	7799		HIS		.8	19.123	29.971	50.456	1.00 40.85	CCCC
ATOM	7800		HIS		.8	18.573	30.780	51.347	1.00 41.29	CCCC
ATOM	7801		HIS		.8	18.319	31.937	50.759	1.00 42.00	CCCC
ATOM	7802	C	HIS		.8	21.899	29.537	46.696	1.00 43.98	CCCC
ATOM	7803	ō	HIS		.8	21.144	29.196	45.790	1.00 45.86	CCCC
	7803	N	GLY		.9	23.214	29.393	46.645	1.00 45.08	CCCC
MOTA							28.846	45.477	1.00 45.18	CCCC
ATOM	7805	CA	GLY		.9	23.869			1.00 44.95	CCCC
ATOM	7806	C	GLY		.9	25.320	29.214	45.617		
ATOM	7807	0	GLY		.9	25.682	29.876	46.575	1.00 46.12	CCCC
ATOM	7808	N	THR		20	26.152	28.827	44.667	1.00 45.35	CCCC
ATOM	7809	CA	THR		20	27.570	29.112	44.786	1.00 46.31	CCCC
MOTA	7810	CB	THR		20	28.404	27.853	44.444	1.00 44.86	CCCC
ATOM	7811	OG1			20	28.360	27.625	43.036	1.00 45.83	CCCC
ATOM	7812	CG2	THR		20	27.838	26.629	45.133	1.00 42.40	CCCC
MOTA	7813	C	THR	C 2	20	28.035	30.257	43.903	1.00 48.10	CCCC
MOTA	7814	0	THR	C 2	20	27.517	30.448	42.803	1.00 49.80	CCCC
ATOM	7815	N	CYS	C 3	21	29.004	31.031	44.386	1.00 48.82	CCCC
ATOM	7816	CA	CYS	C 2	21	29.532	32.109	43.578	1.00 49.96	CCCC
ATOM	7817	С	CYS	C 2	21	30.575	31.531	42.654	1.00 48.97	CCCC
ATOM	7818	0	CYS	C 2	21	31.102	30.449	42.894	1.00 49.51	CCCC
ATOM	7819	СВ	CYS		21	30.205	33.212	44.404	1.00 53.74	CCCC
ATOM	7820	ŞG	CYS		21	31.157	34.324	43.299	1.00 62.23	CCCC
ATOM	7821	N	ARG		22	30.838	32.260	41.578	1.00 47.91	caca
ATOM	7822	CA	ARG		22	31.852	31.918	40.601	1.00 46.52	cccc
ATOM	7823	CB	ARG		22	31.362	30.880	39.592	1.00 43.45	CCCC
ATOM	7824	CG	ARG		22	30.197	31.296	38.725	1.00 43.43	CCCC
ATOM	7825	CD	ARG		22	29.841	30.170	37.760	1.00 39.94	cccc
ATOM	7826	NE	ARG		22	28.657	30.462	36.960	1.00 36.89	CCCC
ATOM	7827	CZ	ARG		22	28.151	29.626	36.064	1.00 36.15	CCCC
ATOM	7828		ARG		22	28.732	28.454	35.856	1.00 33.28	CCCC
ATOM	7829		ARG		22	27.064	29.955	35.384	1.00 35.89	CCCC
					22	32.156	33.240	39.921	1.00 48.25	CCCC
ATOM	7830	C	ARG					39.723	1.00 46.01	CCCC
ATOM	7831	0	ARG		22	31.265	34.068			CCCC
ATOM	7832	N	PHE		23	33.426	33.455	39.607	1.00 50.87	CCCC
MOTA	7833	CA	PHE		23	33.844	34.689	38.969	1.00 53.60	
MOTA	7834	CB	PHE		23	35.199	35.124	39.523	1.00 56.02	CCCC
ATOM	7835	CG	PHE		23	35.500	36.586	39.325	1.00 57.16	CCCC
MOTA	7836	CD1			23	34.927	37.542	40.155	1.00 57.10	cccc
MOTA	7837	CD2			23	36.381	37.002	38.331	1.00 58.22	CCCC
ATOM	7838	CE1			23	35.227	38.887	40.006	1.00 57.73	CCCC
MOTA	7839	CE2			23	36.687	38.345	38.174	1.00 59.39	CCCC
MOTA	7840	CZ	PHE		23	36.108	39.290	39.017	1.00 58.87	CCCC
MOTA	7841	С	PHE		23	33.965	34.401	37.492	1.00 53.56	CCCC
MOTA	7842	0	PHE		23	34.715	33.510	37.095	1.00 52.87	CCCC
MOTA	7843	И	LEU		24	33.229	35.131	36.666	1.00 54.07	CCCC
MOTA	7844	CA	LEU	C :	24	33.339	34.860	35.252	1.00 56.07	CCCC
MOTA	7845	CB	LEU	C :	24	31.962	34.876	34.581	1.00 57.31	CCCC
ATOM	7846	CG	LEU	C :	24	31.175	36.141	34.300	1.00 59.43	CCCC
ATOM	7847	CD1	LEU	C :	24	31.599	36.686	32.941	1.00 60.63	CCCC
ATOM	7848	CD2	LEU	C :	24	29.691	35.808	34.289	1.00 59.57	CCCC
ATOM	7849	C	LEU	C :	24	34.307	35.859	34.661	1.00 56.70	CCCC
ATOM	7850	0	LEU	C :	24	34.113	37.072	34.726	1.00 55.94	CCCC
ATOM	7851	N	VAL	C	25	35.384	35.298	34.123	1.00 58.19	CCCC
MOTA	7852	CA	VAL	C :	25	36.501	36.018	33.528	1.00 58.67	CCCC
MOTA	7853	CB	VAL		25	37.458	35.003	32.873	1.00 58.62	CCCC
ATOM	7854		VAL		25	38.690	35.706	32.321	1.00 58.46	CCCC
ATOM	7855		VAL		25	37.850	33.948	33.899	1.00 56.87	CCCC
ATOM	7856	C	VAL		25	36.223	37.160	32.543	1.00 59.18	CCCC
ATOM	7857	Ö	VAL		25	36.584	38.308	32.813	1.00 60.04	CCCC
ATOM	7858	N	GLN		26	35.593	36.863	31.410	1.00 58.33	CCCC
MOTA	7859	CA	GLN		26	35.333	37.897	30.413	1.00 58.40	CCCC
MOTA	7860	CB	GLN		26	34.611	37.292	29.217	1.00 58.03	CCCC
ATOM	7861	CG	GLN		26	35.568	36.816	28.139	1.00 58.89	CCCC
	7862	CD	GLN		26	34.969	35.742	27.255	1.00 59.58	CCCC
MOTA					26 26	35.550	35.361	26.239	1.00 57.92	CCCC
ATOM	7863		GLN				35.238	27.647	1.00 57.92	CCCC
ATOM	7864		GLN		26 26	33.803		30.878	1.00 59.22	CCCC
ATOM	7865	C	GLN		26 26	34.611	39.159		1.00 59.52	CCCC
ATOM	7866	0	GLN		26 27	34.906	40.253	30.397		CCCC
ATOM	7867	N	GLU		27 27	33.673	39.030	31.806	1.00 59.66	CCCC
ATOM	7868	CA	GLU		27	32.964	40.209	32.292	1.00 60.37 1.00 61.29	CCCC
ATOM	7869	CB	GLU		27	31.493	39.878	32.548 31.296	1.00 51.29	CCCC
ATOM	7870	CG	GLU	Ü	27	30.706	39.585	21.230	1.00 33.30	3000

ATOM	7871	CD	GLU	_	27	30.756	40.731	30.320	1.00 5	50 25	0000
ATOM											CCCC
	7872	OE1	GLU		27	30.392	41.856	30.710	1.00 5	57.67	CCCC
ATOM	7873	OE2	GLU	С	27	31.156	40.503	29.162	1.00 5	59.31	CCCC
ATOM	7874	С	GLU	С	27	33.604	40.726	33.575	1.00 6	60.55	CCCC
ATOM	7875	0	GLU		27	33.284	41.817	34.057	1.00 5		
ATOM											CCCC
	7876	И	ASP		28	34.514	39.923	34.115	1.00 6	61.11	CCCC
ATOM	7877	CA	ASP	С	28	35.220	40.253	35.342	1.00 6	61.85	CCCC
ATOM	7878	CB	ASP	C	28	36.276	41.323	35.072	1.00 6	53.96	CCCC
ATOM	7879	CG	ASP		28	37.415	41.261				
								36.059	1.00 6		CCCC
ATOM	7880	ODI	ASP	C	28	37.249	41.740	37.200	1.00 6	66.05	CCCC
ATOM	7881	OD2	ASP	С	28	38.471	40.705	35.696	1.00 6	67.64	CCCC
ATOM	7882	С	ASP	C	28	34.267	40.715	36.439	1.00		CCCC
ATOM	7883	ō	ASP		28						
						34.247	41.883	36.833	1.00 6		CCCC
ATOM	7884	N	LYS	C	29	33.468	39.773	36.918	1.00 6	60.17	CCCC
ATOM	7885	CA	LYS	С	29	32.503	40.033	37.970	1.00 5	58.55	CCCC
ATOM	7886	CB	LYS	C	29	31.359	40.910	37.461	1.00 5		CCCC
ATOM	7887	CG	LYS		29						
						30.532	40.273	36.367	1.00 6		CCCC
ATOM	7888	CD	LYS	С	29	29.463	41.233	35.858	1.00 6	63.60	CCCC
ATOM	7889	CE	LYS	С	29	30.083	42.502	35.290	1.00 (	65.37	CCCC
ATOM	7890	NZ	LYS	С	29	29.071	43.462	34.759	1.00		CCCC
ATOM											
	7891	С	LYS		29	31.945	38.704	38.441	1.00 5		CCCC
ATOM	7892	0	LYS	С	29	31.966	37.701	37.711	1.00 5	58.36	CCCC
ATOM	7893	N	PRO	С	30	31.460	38.670	39.682	1.00 5	53.91	CCCC
ATOM	7894	CD	PRO	C	30	31.714	39.654	40.749	1.00		CCCC
ATOM	7895	CA	PRO		30	30.898	37.436	40.223	1.00 5	51.91	CCCC
ATOM	7896	CB	PRO	С	30	31.111	37.600	41.725	1.00 5	51.27	CCCC
ATOM	7897	CG	PRO	С	30	30.946	39.074	41.907	1.00 5	52.87	CCCC
ATOM	7898	С	PRO		30	29.425	37.232	39.852	1.00		
											CCCC
MOTA	7899	0	PRO		30	28.663	38.187	39.698	1.00	48.77	CCCC
ATOM	7900	N	ALA	С	31	29.047	35.967	39.706	1.00 4	49.81	CCCC
ATOM	7901	CA	ALA	С	31	27.682	35.582	39.379	1.00	48.75	CCCC
ATOM	7902	СВ	ALA		31	27.572	35.207	37.903			
									1.00 4		CCCC
ATOM	7903	С	ALA		31	27.342	34.383	40.260	1.00 4	48.41	CCCC
MOTA	7904	0	ALA	С	31	28.192	33.903	41.022	1.00 4	46.96	CCCC
ATOM	7905	N	CYS	C	32	26.106	33.898	40.158	1.00 4		CCCC
ATOM	7906	CA	CYS		32						
						25.688	32.761	40.964	1.00 4		CCCC
ATOM	7907	C	CYS		32	25.175	31.564	40.167	1.00 4	42.28	CCCC
ATOM	7908	0	CYS	С	32	24.931	31.639	38.964	1.00 4	41.80	CCCC
MOTA	7909	CB	CYS	С	32	24.594	33.187	41.936	1.00	42.87	CCCC
ATOM	7910	SG	CYS		32	25.049	34.554	43.036	1.00		CCCC
ATOM	7911	N	VAL		33	25.036	30.455	40.879	1.00	39.28	CCCC
ATOM	7912	CA	VAL	С	33	24.504	29.216	40.363	1.00	36.94	CCCC
ATOM	7913	CB	VAL	C	33	25.602	28.184	40.093	1.00	35.89	CCCC
ATOM	7914	CG1	VAL	C	33	24.982	26.870	39.682	1.00		CCCC
MOTA	7915		VAL		33	26.512	28.670	38.998	1.00	35.46	CCCC
ATOM	7916	C	VAL	С	33	23.675	28.769	41.557	1.00	37.86	CCCC
ATOM	7917	0	VAL	С	33	24.175	28.076	42.430	1.00 4	40.78	CCCC
ATOM	7918	N	CYS	C	34	22.416	29.187	41.596	1.00		CCCC
ATOM	7919	CA									
			CYS		34	21.510	28.876	42.697	1.00		CCCC
ATOM	7920	С	CYS		34	21.245	27.414	43.017	1.00	38.57	CCCC
ATOM	7921	0	CYS	С	34	21.339	26.545	42.152	1.00	38.22	CCCC
ATOM	7922	CB	CYS	С	34	20.153	29.527	42.454	1.00		CCCC
ATOM	7923	SG	CYS		34						
						20.203	31.254	41.920	1.00		CCCC
ATOM	7924	И	HIS		35	20.889	27.164	44.273	1.00	38.89	CCCC
ATOM	7925	CA	HIS		35	20.541	25.826	44.731	1.00	42.30	CCCC
MOTA	7926	CB	HIS	С	35	20.523	25.744	46.257	1.00 4	45.69	CCCC
ATOM	7927	CG	HIS		35	21.870	25.839	46.888	1.00		CCCC
ATOM	7928		HIS								
					35	23.093	25.457	46.447	1.00		CCCC
ATOM	7929	NDT	HIS	С	35	22.061	26.373	48.143	1.00 5	51.13	CCCC
ATOM	7930	CE1	HIS	С	35	23.345	26.319	48.448	1.00 5	54.28	CCCC
ATOM	7931	NE2	HIS	С	35	23.993	25.767	47.436	1.00 5	54.18	CCCC
ATOM	7932	C	HIS		35			44.255	1.00		
						19.117	25.636				CCCC
ATOM	7933	0	HIS		35	18.315	26.574	44.304	1.00		CCCC
ATOM	7934	N	SER	С	36	18.791	24.426	43.820	1.00	44.20	CCCC
MOTA	7935	CA	SER	С	36	17.454	24.133	43.342	1.00	43.04	CCCC
ATOM	7936	СВ	SER		36	17.190	22.632	43.404	1.00		CCCC
ATOM	7937	OG	SER		36	16.961	22.247	44.748	1.00		CCCC
ATOM	7938	С	SER	С	36	16.440	24.836	44.225	1.00	41.31	CCCC
MOTA	7939	0	SER	С	36	16.531	24.767	45.453	1.00	42.40	CCCC
ATOM	7940	N	GLY		37	15.490	25.527	43.602	1.00		CCCC
ATOM	7941	CA	GLY		37	14.461	26.197	44.368	1.00		CCCC
ATOM	7942	С	GLY	С	37	14.713	27.646	44.707	1.00	35.73	CCCC
MOTA	7943	0	GLY	С	37	14.097	28.174	45.640	1.00	36.23	CCCC
ATOM	7944	N	TYR		38	15.604	28.297	43.965	1.00		CCCC
ATOM	7945	CA			38				1.00		
. 11 011	, ,,,,	CA	TYR	_	50	15.888	29.699	44.221	1.00	50.10	cccc

ATOM	7946	CB	TYR	С	38	17.067	29.862	45.194	1.00 29.34	CCCC
ATOM	7947	CG	TYR		38	16.669	29.562	46.606	1.00 29.76	cccc
										CCCC
ATOM	7948		TYR		38	16.738	28.265	47.111	1.00 30.09	
ATOM	7949	CE1	TYR	С	38	16.288	27.973	48.382	1.00 29.92	CCCC
ATOM	7950	CD2	TYR	С	38	16.141	30.564	47.420	1.00 31.01	CCCC
ATOM	7951	CE2	TYR	C	38	15.690	30.287	48.689	1.00 30.37	CCCC
	7952	CZ	TYR		38	15.763	28.988	49.165	1.00 33.84	CCCC
ATOM										
ATOM	7953	OH	TYR	С	38	15.288	28.705	50.429	1.00 39.99	CCCC
ATOM	7954	С	TYR	С	38	16.146	30.476	42.951	1.00 29.54	CCCC
ATOM	7955	0	TYR	С	38	16.598	29.921	41.950	1.00 32.21	CCCC
	7956		VAL		39	15.859	31.771	43.004	1.00 26.35	CCCC
ATOM		N								
ATOM	7957	CA	VAL	С	39	16.028	32.626	41.848	1.00 25.17	CCCC
MOTA	7958	CB	VAL	С	39	14.657	32.839	41.105	1.00 25.23	CCCC
ATOM	7959	CG1	VAL	С	39	14.123	31.503	40.576	1.00 22.93	CCCC
ATOM	7960		VAL		39	13.634	33.456	42.052	1.00 20.90	CCCC
ATOM	7961	С	VAL		39	16.562	33.971	42.291	1.00 25.57	CCCC
ATOM	7962	0	VAL	С	39	16.547	34.295	43.485	1.00 23.79	CCCC
ATOM	7963	N	GLY	С	40	17.025	34.749	41.316	1.00 25.53	CCCC
ATOM	7964	CA	GLY		40	17.550	36.070	41.588	1.00 26.15	CCCC
										CCCC
ATOM	7965	С	GLY		40	18.992	36.250	41.163	1.00 27.25	
ATOM	7966	0	GLY	С	40	19.735	35.273	41.031	1.00 26.49	CCCC
ATOM	7967	N	ALA	С	41	19.387	37.502	40.938	1.00 28.82	CCCC
ATOM	7968	CA	ALA	С	41	20.762	37.800	40.558	1.00 30.09	CCCC
ATOM	7969	CB	ALA		41	20.946	39.249	40.392	1.00 28.46	CCCC
ATOM	7970	С	ALA	С	41	21.694	37.290	41.635	1.00 31.85	CCCC
ATOM	7971	0	ALA	С	41	22.805	36.917	41.344	1.00 32.63	CCCC
ATOM	7972	N	ARG	С	42	21.227	37.267	42.882	1.00 35.64	CCCC
ATOM	7973	CA	ARG		42	22.024	36.763	44.005	1.00 36.57	CCCC
ATOM	7974	CB	ARG		42	22.261	37.867	45.046	1.00 38.96	CCCC
ATOM	7975	CG	ARG	С	42	23.330	38.886	44.638	1.00 40.36	CCCC
ATOM	7976	CD	ARG	С	42	23.493	40.002	45.667	1.00 42.46	CCCC
ATOM	7977	NE	ARG		42	24.227	39.598	46.865	1.00 42.85	CCCC
										CCCC
ATOM	7978	CZ	ARG		42	24.375	40.371	47.940	1.00 42.94	
ATOM	7979	NH1	ARG	С	42	23.844	41.588	47.972	1.00 41.41	CCCC
ATOM	7980	NH2	ARG	С	42	25.052	39.928	48.987	1.00 43.03	CCCC
ATOM	7981	С	ARG	C	42	21.367	35.558	44.683	1.00 36.97	CCCC
ATOM	7982	ō	ARG		42	21.655	35.264	45.846	1.00 34.31	CCCC
										CCCC
ATOM	7983	N	CYS		43	20.474	34.881	43.952	1.00 36.70	
ATOM	7984	CA	CYS	С	43	19.786	33.694	44.452	1.00 33.31	CCCC
MOTA	7985	С	CYS	C	43	19.164	33.960	45.812	1.00 32.61	CCCC
ATOM	7986	0	CYS		43	19.267	33.144	46.729	1.00 31.13	CCCC
					43	20.779	32.540	44.575	1.00 37.36	CCCC
MOTA	7987	CB	CYS							
ATOM	7988	SG	CYS	С	43	21.679	32.063	43.057	1.00 41.88	CCCC
ATOM	7989	N	GLU	С	44	18.498	35.100	45.934	1.00 32.62	CCCC
ATOM	7990	CA	GLU	С	44	17.897	35.498	47.196	1.00 32.06	CCCC
ATOM	7991	CB	GLU		44	18.093	36.996	47.405	1.00 32.84	CCCC
									1.00 31.46	CCCC
ATOM	7992	CG	GLU		44	17.225	37.875	46.540		
ATOM	7993	CD	GLU		44	17.801	38.107	45.162	1.00 34.87	CCCC
MOTA	7994	OE1	GLU	С	44	17.283	39.006	44.454	1.00 37.12	CCCC
ATOM	7995		GLU		44	18.760	37.402	44.775	1.00 34.61	CCCC
ATOM	7996	C	GLU		44	16.422	35.182	47.330	1.00 32.58	CCCC
MOTA	7997	0	GLU		44	15.863	35.255	48.416	1.00 33.75	CCCC
MOTA	7998	N	HIS	Ç	45	15.778	34.839	46.225	1.00 33.32	CCCC
ATOM	7999	CA	HIS	C	45	14.358	34.544	46.271	1.00 30.80	CCCC
ATOM	8000	CB	HIS		45	13.636	35.394	45.242	1.00 29.37	CCCC
			HIS			13.568	36.842	45.613	1.00 31.80	CCCC
ATOM	8001	CG			45					
ATOM	8002		HIS		45	13.535	37.448	46.823	1.00 28.98	CCCC
ATOM	8003	ND1	HIS	С	45	13.447	37.848	44.678	1.00 32.21	CCCC
ATOM	8004	CE1	HIS	С	45	13.336	39.009	45.295	1.00 29.88	CCCC
ATOM	8005		HIS		45	13.386	38.793	46.597	1.00 31.40	CCCC
									1.00 31.10	CCCC
ATOM	8006	С	HIS		45	14.046	33.081	46.066		
ATOM	8007	0	HIS		45	14.671	32.397	45.270	1.00 30.86	CCCC
ATOM	8008	N	ALA	С	46	13.084	32.611	46.837	1.00 32.65	CCCC
ATOM	8009	CA	ALA		46	12.630	31.242	46.775	1.00 34.39	CCCC
		CB	ALA			11.990	30.875	48.107	1.00 31.17	CCCC
ATOM	8010				46					CCCC
MOTA	8011	С	ALA		46	11.587	31.211	45.659	1.00 37.13	
MOTA	8012	0	ALA	С	46	10.720	32.092	45.610	1.00 37.11	CCCC
ATOM	8013	N	ASP		47	11.672	30.255	44.733	1.00 40.22	CCCC
ATOM	8014	CA	ASP		47	10.639	30.224	43.712	1.00 43.75	CCCC
									1.00 45.84	CCCC
ATOM	8015	CB	ASP		47	10.992	29.345	42.492		
MOTA	8016	CG	ASP		47	11.483	27.950	42.853	1.00 50.32	CCCC
MOTA	8017	OD1	ASP	С	47	11.050	27.367	43.877	1.00 51.00	CCCC
ATOM	8018		ASP		47	12.304	27.417	42.067	1.00 52.56	CCCC
ATOM	8019	C	ASP		47	9.417	29.713			CCCC
									1.00 44.30	CCCC
ATOM	8020	0	ASP	C	47	9.287	28.534	44.760	T.00 44.30	5555

ATOM	8021	N	LEU	С	48	8.534	30.638	44.775	1.00 47.31	CCCC
MOTA	8022	CA	LEU		48	7.341				
								45.503	1.00 49.35	CCCC
ATOM	8023	CB	LEU		48	6.541	31.540	45.803	1.00 45.27	CCCC
ATOM	8024	CG	LEU	С	48	7.427	32.561	46.529	1.00 40.98	CCCC
ATOM	8025	CD1	LEU	C	48	6.619	33.797	46.866	1.00 39.56	CCCC
MOTA	8026		LEU		48					
						7.985		47.790	1.00 37.29	, CCCC
ATOM	8027	С	LEU	С	48	6.556	29.270	44.683	1.00 53.09	CCCC
ATOM	8028	0	LEU	С	48	5.603	28.663	45.162	1.00 54.58	CCCC
ATOM	8029	N	LEU		49					
						6.979	29.083	43.439	1.00 57.46	CCCC
ATOM	8030	CA	LEU	С	49	6.341	28.113	42.560	1.00 60.79	CCCC
ATOM	8031	CB	LEU	С	49	6.606	28.475	41.096	1.00 61.57	CCCC
ATOM	8032	CG	LEU	_	49	6.036				
								40.758	1.00 62.59	CCCC
ATOM	8033		LEU		49	6.332	30.229	39.306	1.00 62.02	CCCC
ATOM	8034	CD2	LEU	С	49	4.533	29.856	41.028	1.00 61.67	CCCC
ATOM	8035	С	LEU	C	49	6.951	26.764	42.932		
ATOM	8036	ō	LEU						1.00 62.35	CCCC
					49	7.468		42.091	1.00 59.48	CCCC
ATOM	8037	N	ALA		50	6.891	26.493	44.235	1.00 64.71	CCCC
ATOM	8038	CA	ALA	С	50	7.405	25.272	44.833	1.00 67.20	cccc
ATOM	8039	CB	ALA	С	50	7.701	25.504			
ATOM								46.320	1.00 67.40	CCCC
	8040	С	ALA		50	6.379		44.668	1.00 68.43	CCCC
ATOM	8041	OT1	ALA	С	50	5.739	23.801	45.685	1.00 69.62	CCCC
ATOM	8042	OT2	ALA	C	50	6.222	23.685	43.521	1.00 68.84	CCCC
ATOM	8043	CB	SER		3					
							104.628	0.147	1.00103.77	DDDD
ATOM	8044	OG	SER	D	3	~35.810	105.958	-0.250	1.00104.37	DDDD
ATOM	8045	С	SER	D	3	-36.280	102.628	1.453	1.00102.77	DDDD
ATOM	8046	0	SER		3		101.675			
								1.039	1.00102.67	DDDD
MOTA	8047	N	SER	ט	3	-36.776	104.920	2.258	1.00102.88	DDDD
ATOM	8048	CA	SER	D	3	-36.620	104.063	1.048	1.00103.08	DDDD
ATOM	8049	N	HIS	D	4		102.488	2.260		
ATOM	8050								1.00101.60	DDDD
		CA	HIS		4		101.188	2.754	1.00100.63	DDDD
ATOM	8051	CB	HIS	D	4	-33.358	101.291	3.316	1.00 98.07	DDDD
ATOM	8052	CG	HIS	D	4	-32 322	100.571	2.508	1.00 95.75	DDDD
ATOM	8053		HIS		4					
							100.990	2.006	1.00 94.30	DDDD
ATOM	8054	NDT	HIS	D	4	-32.434	99.240	2.164	1.00 94.09	DDDD
MOTA	8055	CE1	HIS	D	4	-31.363	98.872	1.485	1.00 93.20	DDDD
MOTA	8056	NE2	HIS	D	4	-30.559	99.914	1.376		
ATOM	8057								1.00 93.11	DDDD
		C	HIS		4		100.756	3.884	1.00101.12	DDDD
ATOM	8058	0	HIS	D	4	-35.766	99.579	4.253	1.00100.96	DDDD
ATOM	8059	N	PHE	D	5	-36.461	101.721	4.415	1.00101.61	DDDD
ATOM	8060	CA	PHE	D	5		101.478	5.545		
ATOM									1.00102.01	DDDD
	8061	CB	PHE		5	-36.916	102.388	6.702	1.00102.86	DDDD
ATOM	8062	CG	PHE	D	5	-35.452	102.761	6.655	1.00102.90	DDDD
ATOM	8063	CD1	PHE	D	5	-35.011	103.801	5.836	1.00102.92	DDDD
ATOM	8064			D	5					
						_	102.034	7.376	1.00103.46	DDDD
ATOM	8065		PHE	D	5	-33.654	104.110	5.731	1.00102.86	DDDD
ATOM	8066	CE2	PHE	D	5	-33.145	102.335	7.278	1.00103.80	DDDD
ATOM	8067	CZ	PHE	D	5		103.375			
ATOM								6.453	1.00103.37	DDDD
	8068	C	PHE		5	-38.834	101.663	5.243	1.00101.52	DDDD
MOTA	8069	0	PHE	D	5	-39.211	102.407	4.341	1.00101.37	DDDD
ATOM	8070	N	ASN	D	6	-39 666	100.977	6.021	1.00101.24	DDDD
ATOM	8071	CA	ASN		6					
							101.018	5.863	1.00101.07	DDDD
ATOM	8072	CB	ASN		6	-41.605	99.633	5.417	1.00101.34	DDDD
ATOM	8073	CG	ASN	D	6	-43.062	99.623	4.998	1.00101.43	DDDD
ATOM	8074	OD1	ASN	D	6	-43.962	99.881	5.801	1.00100.90	DDDD
MOTA	8075		ASN		6					
						-43.302	99.319	3.729	1.00101.31	DDDD
MOTA	8076	С	ASN		6	-41.798	101.425	7.179	1.00100.52	DDDD
ATOM	8077	0	ASN	D	6	-41.588	102.529	7.685	1.00100.37	DDDD
MOTA	8078	N	ASP	D	7	-42.616		7.718	1.00 99.91	
ATOM										DDDD
	8079	CA	ASP		7	-43.335		8.971	1.00 99.42	DDDD
ATOM	8080	CB	ASP	D	7	-44.663	101.460	8.704	1.00101.13	DDDD
ATOM	8081	CG	ASP	D	7	-44.472	102.856	8.109	1.00102.85	DDDD
MOTA	8082		ASP		7					
						-43.897		8.795	1.00102.35	DDDD
ATOM	8083		ASP		7	-44.899	103.073	6.951	1.00103.31	DDDD
ATOM	8084	С	ASP	D	7	-43.580	99.373	9.605	1.00 98.30	DDDD
ATOM	8085	0	ASP		7	-43.828	98.394	8.901		
ATOM	8086								1.00 98.76	DDDD
		N	CYS		8	-43.514	99.296	10.928	1.00 96.27	DDDD
ATOM	8087	CA	CYS	D	8	-43.691	98.014	11.600	1.00 94.52	DDDD
ATOM	8088	С	CYS		8	-45.128	97.529	11.762	1.00 94.68	
ATOM	8089									DDDD
		0	CYS		8	-46.046	98.319	11.975	1.00 94.41	DDDD
MOTA	8090	CB	CYS	D	8	-43.006	98.042	12.970	1.00 92.07	DDDD
ATOM	8091	SG	CYS	D	8	-41.193	98.240	12.907	1.00 88.51	DDDD
ATOM	8092	N	PRO		9	-45.329				
							96.202	11.658	1.00 94.74	DDDD
MOTA	8093	CD	PRO		9	-44.280	95.293	11.163	1.00 94.74	DDDD
ATOM	8094	CA	PRO	D	9	-46.602	95.485	11.775	1.00 95.31	DDDD
MOTA	8095	CB	PRO		9	-46.198	94.035	11.528	1.00 94.58	DDDD
		_		-	-		2		/1	

MOTA	8096	CG	PRO	D	9	-45.086	94.172	10.562	1.00 94.88	DDDD
ATOM	8097	C	PRO		9	-47.342	95.648	13.107	1.00 96.42	DDDD
	8098	0	PRO		9	-47.413	96.745	13.670	1.00 96.29	DDDD
ATOM										
MOTA	8099	И	ASP		10	-47.889	94.533	13.594	1.00 97.14	DDDD
ATOM	8100	CA	ASP		10	-48.659	94.492	14.835	1.00 97.69	DDDD
MOTA	8101	CB	ASP	D	10	-49.005	93.039	15.177	1.00 98.97	DDDD
ATOM	8102	CG	ASP	D	10	-50.336	92.909	15.904	1.00100.54	DDDD
ATOM	8103	OD1	ASP	D	10	-50.446	93.386	17.054	1.00101.62	DDDD
ATOM	8104		ASP		10	-51.276	92.330	15.318	1.00100.69	DDDD
ATOM	8105	С	ASP		10	-47.920	95.144	16.000	1.00 97.34	DDDD
ATOM	8106	0	ASP		10	-47.219	94.477	16.764	1.00 97.87	DDDD
ATOM	8107	N	ALA	D	11	-48.099	96.454	16.137	1.00 95.68	DDDD
ATOM	8108	CA	ALA	D	11	-47.444	97.214	17.191	1.00 93.68	DDDD
ATOM	8109	CB	ALA	D	11	-47.629	98.706	16.936	1.00 94.04	DDDD
ATOM	8110	C	ALA		11	-47.921	96.861	18.599	1.00 92.34	DDDD
ATOM	8111	ō	ALA		11	-47.903	97.714	19.488	1.00 91.85	DDDD
		N			12					
ATOM	8112		ALA			-48.348	95.614	18.801	1.00 91.06	DDDD
MOTA	8113	CA	ALA		12	-48.810	95.158	20.120	1.00 89.37	DDDD
MOTA	8114	CB	ALA	D	12	-49.369	93.744	20.028	1.00 88.91	DDDD
MOTA	8115	С	ALA	D	12	-47.614	95.191	21.068	1.00 88.11	DDDD
ATOM	8116	0	ALA	D	12	-46.528	94.722	20.716	1.00 88.74	DDDD
ATOM	8117	N	ALA	D	13	-47.816	95.726	22.270	1.00 85.59	DDDD
ATOM	8118	CA	ALA		13	-46.726	95.861	23.234	1.00 83.05	DDDD
ATOM	8119	CB	ALA		13	-46.084	94.514	23.538	1.00 81.88	DDDD
ATOM	8120	С	ALA		13	-45.724	96.777	22.547	1.00 81.43	DDDD
ATOM	8121	0	ALA	D	13	-45.901	97.994	22.550	1.00 82.76	DDDD
ATOM	8122	N	GLN	D	14	-44.694	96.185	21.945	1.00 78.55	DDDD
ATOM	8123	CA	GLN	D	14	-43.660	96.928	21.225	1.00 76.00	DDDD
MOTA	8124	CB		D	14	-43.307	98.235	21.948	1.00 77.31	DDDD
ATOM	8125	CG	GLN	D	14	-42.624	98.039	23.289	1.00 80.17	DDDD
									1.00 82.07	
ATOM	8126	CD		D	14	-42.535	99.317	24.097		DDDD
ATOM	8127	OE1		D	14		100.331	23.628	1.00 82.95	DDDD
ATOM	8128	NE2	GLN	D	14	-43.046	99.274	25.328	1.00 83.05	DDDD
ATOM	8129	С	GLN	D	14	-42.405	96.079	21.088	1.00 73.09	DDDD
ATOM	8130	0	GLN	D	14	-41.961	95.444	22.045	1.00 72.32	DDDD
ATOM	8131	N	PHE	D	15	-41.838	96.069	19.889	1.00 69.90	DDDD
ATOM	8132	CA	PHE		15	-40.633	95.302	19.635	1.00 66.79	DDDD
ATOM	8133	СВ	PHE	D	15	-40.399	95.158	18.126	1.00 67.15	DDDD
						10.555	30.100	20.220	<b>1.00 0.11</b>	2222
		CC	DUE	_	1 5	- 30 244	04 256	17 775	1 00 66 47	ממממ
ATOM	8134	CG	PHE	D	15	-39.244	94.256	17.775	1.00 66.47	DDDD
MOTA	8135	CD1	PHE	D	15	-39.195	92.953	18.252	1.00 65.39	DDDD
ATOM ATOM	8135 8136	CD1 CD2	PHE PHE	D D	15 15	-39.195 -38.204	92.953 94.713	18.252 16.974	1.00 65.39 1.00 66.61	DDDD DDDD
MOTA	8135	CD1	PHE PHE	D	15	-39.195	92.953	18.252	1.00 65.39	DDDD
ATOM ATOM	8135 8136	CD1 CD2	PHE PHE PHE	D D	15 15	-39.195 -38.204	92.953 94.713	18.252 16.974	1.00 65.39 1.00 66.61	DDDD DDDD
ATOM ATOM ATOM ATOM	8135 8136 8137	CD1 CD2 CE1	PHE PHE PHE PHE	D D D	15 15 15	-39.195 -38.204 -38.134 -37.137	92.953 94.713 92.122	18.252 16.974 17.938 16.654	1.00 65.39 1.00 66.61 1.00 65.41	DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139	CD1 CD2 CE1 CE2 CZ	PHE PHE PHE PHE PHE	D D D D	15 15 15 15	-39.195 -38.204 -38.134 -37.137 -37.103	92.953 94.713 92.122 93.884 92.588	18.252 16.974 17.938 16.654 17.137	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 66.29	DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140	CD1 CD2 CE1 CE2 CZ	PHE PHE PHE PHE PHE	D D D D	15 15 15 15 15	-39.195 -38.204 -38.134 -37.137 -37.103	92.953 94.713 92.122 93.884 92.588	18.252 16.974 17.938 16.654 17.137	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 66.29	DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141	CD1 CD2 CE1 CE2 CZ	PHE PHE PHE PHE PHE PHE	D D D D D D	15 15 15 15 15 15	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688	92.953 94.713 92.122 93.884 92.588 96.004 95.383	18.252 16.974 17.938 16.654 17.137 20.291 21.043	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 66.29 1.00 64.59 1.00 63.48	DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142	CD1 CD2 CE1 CE2 CZ C O N	PHE PHE PHE PHE PHE PHE PHE CYS	0 0 0 0 0 0	15 15 15 15 15 15 15 15	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06	DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143	CD1 CD2 CE1 CE2 CZ CO N CA	PHE PHE PHE PHE PHE PHE CYS	00000000	15 15 15 15 15 15 15 16 16	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144	CD1 CD2 CE1 CE2 CZ C O N	PHE PHE PHE PHE PHE CYS CYS		15 15 15 15 15 15 15 15	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143	CD1 CD2 CE1 CE2 CZ CO N CA	PHE PHE PHE PHE PHE PHE CYS		15 15 15 15 15 15 15 16 16	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -39.288 -38.203 -38.595 -39.692	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144	CD1 CD2 CE1 CE2 CZ C O N CA C	PHE PHE PHE PHE PHE CYS CYS	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 15 15 15 15 15 15 16 16	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145	CD1 CD2 CE1 CE2 CZ C O N CA C	PHE PHE PHE PHE PHE CYS CYS CYS		15 15 15 15 15 15 15 16 16 16	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -39.288 -38.203 -38.595 -39.692	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147	CD1 CD2 CE1 CE2 CZ O N CA C O CB	PHE PHE PHE PHE PHE CYS CYS CYS CYS CYS		15 15 15 15 15 15 16 16 16 16 16	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8144 8142 8143 8144 8145 8146 8147 8148	CD1 CD2 CE1 CE2 CZ CO N CA CO CB SG N	PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 15 16 16 16 16 16 16	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.398	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 53.23	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8148 8149	CD1 CD2 CE1 CE2 CZ CO N CA CO CB SG N CA	PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE PHE		15 15 15 15 15 15 16 16 16 16 16 16 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.274 98.833 98.398 98.813	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 53.23 1.00 51.60	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8145 8146 8147 8148 8149	CD1 CD2 CE1 CE2 CZ C O N CA C O CB SG N CA CB	PHE PHE PHE PHE CYS CYS CYS CYS CYS PHE PHE PHE		15 15 15 15 15 15 16 16 16 16 16 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.398 98.813 97.926	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 53.23 1.00 51.60 1.00 50.39	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8148 8149 8150 8151	CD1 CD2 CE1 CE2 CZ C O N CA C O CB SG N CA CB	PHE PHE PHE PHE CYS CYS CYS CYS CYS PHE PHE PHE		15 15 15 15 15 15 16 16 16 16 16 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643	92.953 94.713 92.122 93.884 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.898 98.813 97.926	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.225	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 53.23 1.00 53.23 1.00 51.60 1.00 50.39 1.00 49.26	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8148 8149 8150 8151 8152	CD1 CD2 CE1 CE2 CZ O N CA C O CB SG N CA CB CG CD1	PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 15 16 16 16 16 17 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.398 98.813 97.926 96.494 96.153	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.225 25.629	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 53.23 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.21	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8148 8149 8150 8151 8152 8153	CD1 CD2 CE1 CE2 CZ O N CA C CB SG N CA CB CB CD1 CD2	PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE PHE PHE PHE PHE		15 15 15 15 15 15 16 16 16 16 17 17 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -36.773	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.398 98.813 97.926 96.494 96.153 95.484	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.629 24.845	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 52.53 1.00 53.23 1.00 50.39 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.06	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8148 8149 8150 8151 8152	CD1 CD2 CE1 CE2 CZ O N CA C CB SG N CA CB CB CD1 CD2	PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 15 16 16 16 16 17 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.398 98.813 97.926 96.494 96.153	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.225 25.629	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 53.23 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.21	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8148 8149 8150 8151 8152 8153	CD1 CD2 CE1 CE2 CZ CON CACO CBSGN CACBCCC CD1 CD2 CD1	PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE PHE PHE PHE PHE		15 15 15 15 15 15 16 16 16 16 17 17 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -36.773	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.398 98.813 97.926 96.494 96.153 95.484	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.629 24.845	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 52.53 1.00 53.23 1.00 50.39 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.06	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8148 8149 8150 8151 8152 8153 8154 8155	CD1 CD2 CE1 CE2 CZ C O N CA C O CB SG N CA CB CCB CCB CCB CCB CCB CCB CCB CCB C	PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE PHE PHE PHE PHE PHE PHE		15 15 15 15 15 15 16 16 16 16 17 17 17 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -38.923 -38.7172	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.813 97.926 96.153 95.484 94.819 94.150	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.225 24.845 25.663 24.875	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 53.23 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.06 1.00 50.68	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8144 8145 8146 8147 8148 8149 8150 8151 8152 8153 8154 8155 8156	CD1 CD2 CE1 CE2 CZ C O N CA C O CB SG N CA CB CG CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCCD2 CCCD1	PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 15 16 16 16 16 17 17 17 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -38.773 -39.332 -37.172 -38.455	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.551 99.067 99.274 98.833 98.813 97.926 96.494 96.153 95.484 94.819 94.150 93.818	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.225 25.629 24.845 25.663 24.875 25.288	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 53.23 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.26 1.00 49.06 1.00 50.32 1.00 50.68 1.00 50.32 1.00 50.32	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8144 8145 8146 8147 8148 8149 8150 8151 8152 8153 8154 8155 8155 8156 8157	CD1 CD2 CE1 CE2 CZ CO N CA CO CB SG N CA CB CG CCD1 CCD2 CCD1 CCD2 CCCCCCCCCCCCCCCCCCC	PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 17 17 17 17 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -36.773 -39.332 -37.172 -38.455 -37.624	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.551 99.067 99.274 98.833 98.813 97.926 96.494 96.153 95.484 94.150 93.818 100.267	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.225 25.629 24.875 25.88 24.875 25.288 24.516	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 53.23 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.06 1.00 50.68 1.00 50.32 1.00 50.68 1.00 50.32 1.00 50.68 1.00 50.32 1.00 50.32	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8150 8151 8152 8153 8154 8155 8155 8155 8157 8158	CD1 CD2 CE1 CC2 C O N CA C O CB SG N CA CB CC CC1 CC1 CC2 CC2 CC CC2 CC CC0 CC2 CC0 CC2 CC0 CC2 CC0 CC2 CC0 CC2 CC0 CC2 CC0 CC0	PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 15 16 16 16 16 17 17 17 17 17 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -37.172 -39.332 -37.172 -38.455 -37.624 -38.246	92.953 94.713 92.122 93.884 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.898 98.813 97.926 96.494 96.153 95.484 94.150 93.818 100.267 100.901	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.9907 24.266 25.239 25.225 25.629 24.845 25.663 24.875 25.288 24.516 25.356	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 66.29 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 53.23 1.00 53.23 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.21 1.00 50.39 1.00 50.39 1.00 50.39 1.00 49.21 1.00 49.21 1.00 50.39 1.00 50.39	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8150 8151 8152 8153 8154 8155 8155 8155 8156 8157 8158 8159	CD1 CD2 CE1 CE2 CZ C O N CA C O CB SG CA CCB CCB CCB CCB CCB CCC CCC CCC CCC	PHE PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 17 17 17 17 17 17 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -39.288 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -37.172 -38.455 -37.624 -38.246	92.953 94.713 92.122 93.884 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.898 98.813 97.926 96.494 96.153 95.484 94.150 93.818 100.267 100.901	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.225 25.629 24.845 25.663 24.875 25.663 24.875 25.356 23.786	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 53.23 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.06 1.00 50.32 1.00 50.32 1.00 50.32	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8150 8151 8152 8153 8154 8155 8156 8157 8158 8159 8160	CD1 CD2 CE1 CE2 CZ C O N CA C O CB SG CCA CCB CCB CCB CCB CCCC CCC CCC CCC CC	PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 17 17 17 17 17 17 17 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.7957 -37.194 -37.643 -38.923 -36.773 -39.332 -37.172 -38.455 -37.624 -38.246 -36.657 -36.267	92.953 94.713 92.122 93.884 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.398 98.813 97.926 96.494 96.153 95.484 94.150 93.818 100.267 100.804 102.196	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.225 25.629 24.845 25.663 24.875 25.288 24.516 25.356 23.786 23.786 23.977	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.06 1.00 50.68 1.00 50.68 1.00 50.32 1.00 49.89 1.00 50.37 1.00 50.37 1.00 50.32 1.00 50.32	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8148 8150 8151 8152 8153 8154 8155 8156 8157 8158 8159 8160 8161	CD1 CD2 CE1 CE2 CZ C O N CA C O CB SG N CA CC CD1 CC2 CC C C C C C C C C C C C C C C C C	PHE PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 17 17 17 17 17 17 17 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -36.773 -39.332 -37.172 -38.455 -37.624 -38.246 -36.657 -36.267	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.398 98.813 97.926 96.494 96.153 95.484 94.819 94.150 93.818 100.267 100.804 102.196 102.271	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.629 24.845 25.663 24.875 25.288 24.516 25.356 23.786 23.786 23.977 24.971	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 55.03 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.06 1.00 50.39 1.00 50.68 1.00 50.32 1.00 49.89 1.00 50.32 1.00 50.32	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8150 8151 8152 8153 8154 8155 8156 8157 8158 8159 8160	CD1 CD2 CE1 CE2 CZ C O N CA C O CB SG CCA CCB CCB CCB CCB CCCC CCC CCC CCC CC	PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 17 17 17 17 17 17 17 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -36.773 -39.332 -37.172 -38.455 -37.624 -38.246 -36.657 -36.267	92.953 94.713 92.122 93.884 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.398 98.813 97.926 96.494 96.153 95.484 94.150 93.818 100.267 100.804 102.196	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.225 25.629 24.845 25.663 24.875 25.288 24.516 25.356 23.786 23.786 23.977	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.06 1.00 50.68 1.00 50.68 1.00 50.32 1.00 49.89 1.00 50.37 1.00 50.37 1.00 50.32 1.00 50.32	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8148 8150 8151 8152 8153 8154 8155 8156 8157 8158 8159 8160 8161	CD1 CD2 CE1 CC2 C C O N CA C O CB SG N CA CCB CCB CCC CCC CC CCC CCC CCC CCC C	PHE PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 17 17 17 17 17 17 17 17 17	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -36.773 -39.332 -37.172 -38.455 -37.624 -38.246 -36.657 -35.109 -35.479	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.398 98.813 97.926 96.494 96.153 95.484 94.819 94.150 93.818 100.267 100.804 102.196 102.271	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.629 24.845 25.663 24.875 25.288 24.516 25.356 23.786 23.786 23.977 24.971	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 55.03 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.06 1.00 50.39 1.00 50.68 1.00 50.32 1.00 49.89 1.00 50.32 1.00 50.32	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8148 8149 8151 8151 8155 8155 8155 8156 8157 8156 8157 8158 8160 8161 8162 8163	CD1 CD2 CE1 CC2 C C O N CA C O CB SG N CA CC CCD1 CC2 CC C C C C C C C C C C C C C C C C	PHE PHE PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 17 17 17 17 17 17 17 17 18 18 18	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -36.773 -39.332 -37.172 -38.455 -37.624 -38.246 -36.657 -35.109 -35.479 -35.425	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 97.926 96.153 95.484 94.150 93.818 100.267 100.901 100.804 102.196 102.271 101.809 100.582	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 24.845 25.663 24.875 25.663 24.875 25.356 23.786 23.786 23.786 23.786 23.786 24.971 26.341 26.913	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 63.48 1.00 56.11 1.00 54.98 1.00 55.03 1.00 55.03 1.00 52.53 1.00 50.39 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.21 1.00 49.89 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.33 1.00 50.32 1.00 50.33 1.00 50.33 1.00 50.32 1.00 50.33 1.00 50.33 1.00 50.33 1.00 50.33	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8141 8141 8144 8145 8146 8147 8148 8149 8150 8151 8152 8153 8154 8155 8156 8157 8156 8157 8160 8161 8162 8163 8164	CD1 CD2 CE1 CE2 CZ C O N CA C O CB SG N CA CB CCD1 CC2 CZ C O N CA CB CCD1 CCB CCD1 CCD2 CCD2	PHE PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 16 17 17 17 17 17 17 17 17 18 18 18 18	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -38.455 -37.624 -38.246 -36.657 -35.109 -35.479 -35.425 -36.064	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.813 97.926 96.153 95.484 94.150 93.818 100.267 100.804 102.271 101.809 100.582 102.640	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.225 24.845 25.663 24.875 25.356 23.786 23.786 23.977 24.971 26.341 26.913 27.271	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 53.23 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.26 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.37 1.00 50.37 1.00 50.02 1.00 50.14 1.00 49.93 1.00 49.93 1.00 49.93 1.00 49.93 1.00 49.93 1.00 49.93 1.00 49.93 1.00 50.22 1.00 50.22 1.00 50.22	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8148 8149 8150 8151 8152 8153 8154 8155 8156 8157 8156 8157 8166 8161 8162 8163 8164 8165	CD1 CD2 CE1 CE2 CZ C O N CA C O CB SG N CA CB CCD1 CC2 CZ C O N CA CB CCD1 CC2 CZ C O N CA CB CCD1 CC2 CZ C C O N CA CB CCD1 CC2 CZ C C O N CA CB CCB CCD1 CCB CCD1 CCB CCD1 CCB CCD1 CCB CCD1 CCB CCD CCD1 CCB CCD CCD1 CCB CCD CCD CCD CCD CCD CCD CCD CCD CCD	PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 16 17 17 17 17 17 17 17 17 18 18 18 18 18	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -37.172 -38.455 -37.624 -38.246 -36.657 -35.109 -35.409 -35.409 -35.479 -35.425 -36.064 -36.359	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.398 98.813 97.926 96.494 96.153 95.484 94.150 93.818 100.267 100.804 102.196 102.271 101.809 100.582 102.640 101.943	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.225 24.845 25.663 24.875 25.356 23.786 23.786 23.786 23.786 23.786 23.786 23.786 23.786 23.771 24.971 26.913 27.271 28.355	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.07 1.00 66.29 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 53.23 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.21 1.00 50.39 1.00 50.31 1.00 50.32 1.00 49.21 1.00 49.21 1.00 50.32 1.00 49.21 1.00 50.32 1.00 49.89 1.00 50.37 1.00 50.02 1.00 50.02 1.00 49.89 1.00 49.89 1.00 50.02 1.00 49.64 1.00 49.64 1.00 49.42	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8150 8151 8152 8153 8154 8155 8155 8156 8157 8158 8159 8160 8161 8162 8163 8164 8165 8166	CD1 CD2 CE1 CC2 CC O N CA C O CB SG N CA CB CCC CC CO N CA CB CCC CC CO N CA CB CCC CC O N CA CB CCC CC CC CC O N CA CB CCC CC	PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 16 17 17 17 17 17 17 17 17 18 18 18 18 18 18	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -37.172 -38.455 -37.624 -38.246 -36.657 -35.109 -35.479 -35.425 -36.064 -36.359 -35.984	92.953 94.713 92.122 93.884 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.898 98.813 97.926 96.494 96.153 95.484 94.150 93.818 100.267 100.804 102.196 102.271 101.809 100.582 102.640 101.943 100.691	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.225 25.629 24.845 25.663 24.875 25.356 23.786 23.786 23.786 23.786 23.786 23.786 23.786 23.786 23.777 24.971 26.341 26.913 27.271 28.355 28.163	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 63.48 1.00 60.06 1.00 56.11 1.00 54.98 1.00 55.03 1.00 55.03 1.00 53.23 1.00 51.60 1.00 50.39 1.00 49.21 1.00 49.21 1.00 50.39 1.00 50.39 1.00 50.39 1.00 50.39 1.00 50.39 1.00 50.39 1.00 49.21 1.00 49.21 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.33 1.00 50.33 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.33 1.00 50.32 1.00 50.37 1.00 50.02 1.00 50.02 1.00 50.02 1.00 50.02 1.00 49.93 1.00 49.93 1.00 49.64 1.00 49.42 1.00 49.42 1.00 49.42	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8150 8151 8152 8153 8154 8155 8155 8156 8157 8156 8157 8160 8161 8162 8163 8164 8165 8166 8167	CD1 CD2 CE1 CC2 CZ CO N CA CB CG CD2 CZ CC	PHE PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 16 17 17 17 17 17 17 17 17 17 18 18 18 18 18 18 18	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -39.288 -39.692 -37.874 -37.799 -37.683 -37.7957 -37.194 -37.643 -38.923 -37.172 -38.455 -37.624 -38.246 -36.657 -35.109 -35.479 -35.425 -36.359 -35.984 -35.898	92.953 94.713 92.122 93.884 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.898 98.813 97.926 96.494 96.153 95.484 94.150 93.818 100.267 100.804 102.271 101.809 102.271 101.809 100.582 100.691 102.879	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.225 25.629 24.845 25.663 24.875 25.356 23.786 23.977 24.971 26.341 26.341 27.271 28.355 28.163 22.669	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 63.48 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 51.60 1.00 50.39 1.00 49.21 1.00 49.21 1.00 49.21 1.00 49.21 1.00 50.68 1.00 50.68 1.00 50.32 1.00 50.68 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.33 1.00 50.68 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.32 1.00 50.37 1.00 50.22 1.00 49.93 1.00 49.93 1.00 49.42 1.00 49.42 1.00 49.42 1.00 49.42 1.00 49.42 1.00 49.42	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8150 8151 8152 8153 8154 8155 8156 8157 8158 8159 8160 8161 8162 8163 8164 8165 8165 8166 8167 8168	CD1 CD2 CE1 CC2 CZ CO N CA CB CG CD1 CC2 CZ CC	PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 17 17 17 17 17 17 17 17 17 18 18 18 18 18 18 18 18	-39.195 -38.204 -38.134 -37.137 -37.103 -39.445 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.7957 -37.194 -37.643 -38.923 -37.172 -38.455 -37.624 -36.657 -36.267 -35.109 -35.479 -35.425 -36.064 -36.359 -35.984 -35.984 -35.984	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.398 98.813 97.926 96.494 96.153 95.484 94.150 93.818 100.901 100.804 102.196 102.271 101.809 100.582 102.640 101.943 102.679 102.879 103.361	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.225 25.629 24.845 25.663 24.875 25.288 24.516 23.787 24.971 26.341 26.913 27.271 28.355 28.163 22.669 22.478	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 63.48 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.06 1.00 50.68 1.00 50.68 1.00 50.32 1.00 50.68 1.00 50.32 1.00 50.32 1.00 50.33 1.00 50.49.89 1.00 50.37 1.00 50.37 1.00 50.22 1.00 49.67 1.00 49.67 1.00 49.42 1.00 49.42 1.00 49.42 1.00 49.42 1.00 49.42 1.00 49.42	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8148 8150 8151 8152 8153 8154 8155 8156 8157 8158 8160 8161 8162 8163 8164 8165 8166 8167 8168 8169	CD1 CD2 CE1 CC2 CC ON CA CB CGC CD2 CC	PHE PHE PHE PHE CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 17 17 17 17 17 17 17 17 17 17 18 18 18 18 18 18 18 19 19	-39.195 -38.204 -38.134 -37.137 -37.103 -39.415 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -36.773 -39.332 -37.172 -38.455 -37.624 -38.246 -36.657 -35.109 -35.479 -35.425 -36.064 -36.359 -35.984 -35.984 -34.781 -36.872	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 97.926 96.494 96.153 95.484 94.150 93.818 100.267 100.804 102.196 102.271 101.809 102.640 101.943 102.640 101.943 102.879 103.361 102.925	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.239 25.629 24.845 25.663 24.875 25.663 24.875 25.288 24.516 23.786 23.786 23.786 23.786 23.786 23.786 23.786 23.786 23.786 23.786 23.786 23.776	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 63.48 1.00 56.11 1.00 54.98 1.00 55.03 1.00 55.03 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.21 1.00 49.06 1.00 50.32 1.00 49.89 1.00 50.32 1.00 49.89 1.00 50.32 1.00 49.93 1.00 49.93 1.00 49.93 1.00 49.67 1.00 49.42 1.00 49.42 1.00 49.42 1.00 49.42 1.00 49.27 1.00 50.32	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8150 8151 8152 8153 8154 8155 8156 8157 8158 8159 8160 8161 8162 8163 8164 8165 8165 8166 8167 8168	CD1 CD2 CE1 CC2 CZ CO N CA CB CG CD1 CC2 CZ CC	PHE PHE PHE PHE PHE CYS CYS CYS CYS PHE		15 15 15 15 15 16 16 16 16 17 17 17 17 17 17 17 17 17 18 18 18 18 18 18 18 18	-39.195 -38.204 -38.134 -37.137 -37.103 -39.415 -38.688 -39.288 -38.203 -38.595 -39.692 -37.874 -37.799 -37.683 -37.957 -37.194 -37.643 -38.923 -36.773 -39.332 -37.172 -38.455 -37.624 -38.246 -36.657 -35.109 -35.479 -35.425 -36.064 -36.359 -35.984 -35.984 -34.781 -36.872	92.953 94.713 92.122 93.884 92.588 96.004 95.383 97.297 98.069 98.551 99.067 99.274 98.833 98.398 98.813 97.926 96.494 96.153 95.484 94.150 93.818 100.901 100.804 102.196 102.271 101.809 100.582 102.640 101.943 102.679 102.879 103.361	18.252 16.974 17.938 16.654 17.137 20.291 21.043 20.003 20.582 21.958 22.159 19.723 17.982 22.907 24.266 25.225 25.629 24.845 25.663 24.875 25.288 24.516 23.787 24.971 26.341 26.913 27.271 28.355 28.163 22.669 22.478	1.00 65.39 1.00 66.61 1.00 65.41 1.00 66.29 1.00 64.59 1.00 63.48 1.00 63.48 1.00 56.11 1.00 54.98 1.00 55.03 1.00 54.09 1.00 52.53 1.00 51.60 1.00 50.39 1.00 49.26 1.00 49.21 1.00 49.06 1.00 50.68 1.00 50.68 1.00 50.32 1.00 50.68 1.00 50.32 1.00 50.32 1.00 50.33 1.00 50.49.89 1.00 50.37 1.00 50.37 1.00 50.22 1.00 49.67 1.00 49.67 1.00 49.42 1.00 49.42 1.00 49.42 1.00 49.42 1.00 49.42 1.00 49.42	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD

ATOM	8171	С	$\operatorname{GLY}$	D	19	-37.860	103.227	19.610	1.00 56	5.17	DDDD
ATOM	8172	0	GLY	D	19		102.542	20.037	1.00 54		
ATOM	8173	N	THR								DDDD
					20	-37.832	103.728	18.383	1.00 58	3.48	DDDD
MOTA	8174	CA	THR	D	20	-38.929	103.489	17.465	1.00 60	).99	DDDD
MOTA	8175	CB	THR	D	20	-39 278	104.772	16.692	1.00 59		
ATOM	8176	OG1			20						DDDD
							105.448	16.296	1.00 59	9.75	DDDD
ATOM	8177	CG2	THR	D	20	-40.092	105.693	17.574	1.00 60	0.65	DDDD
ATOM	8178	С	THR	D	20		102.342	16.505	1.00 63		
ATOM	8179	ō	THR								DDDD
					20	-37.518	102.118	16.083	1.00 63	3.23	DDDD
ATOM	8180	N	CYS	D	21	-39.709	101.607	16.184	1.00 67	7.02	DDDD
ATOM	8181	CA	CYS	D	21		100.465	15.288	1.00 70		
ATOM	8182										DDDD
		С	CYS	D	21	-39.759	100.905	13.833	1.00 71	02	DDDD
ATOM	8183	0	CYS	D	21	-40.526	101.814	13.514	1.00 72	. 65	DDDD
ATOM	8184	CB	CYS	D	21	-40.730	99.467	15.636			
ATOM	8185	SG							1.00 74		DDDD
				D	21	-40.598	97.851	14.811	1.00 83	3.40	DDDD
ATOM	8186	N	ARG	D	22	-38.999	100.257	12.958	1.00 70	21	DDDD
ATOM	8187	CA	ARG	n	22		100.553				
ATOM								11.531	1.00 69		DDDD
	8188	CB	ARG	ט	22	-37.889	101.527	11.170	1.00 67	.40	DDDD
ATOM	8189	CG	ARG	D	22	-36.562	101.139	11.793	1.00 65	22	DDDD
ATOM	8190	CD	ARG	D	22		101.304				
								10.869	1.00 61	38	DDDD
ATOM	8191	NE	ARG	D	22	-34.967	102.691	10.697	1.00 59	0.09	DDDD
ATOM	8192	CZ	ARG	D	22	-33.711	103.069	10.471	1.00 59	9 9 9	DDDD
MOTA	8193	NH1	ARG	Ď	22						
							102.165	10.401	1.00 58	3.75	DDDD
MOTA	8194	NH2	ARG	D	22	-33.417	104.349	10.291	1.00 59	3.37	DDDD
ATOM	8195	С	ARG	D	22	-38.803	99.238	10.803	1.00 70		
ATOM	8196	ō									DDDD
			ARG		22	-38.071	98.370	11.276	1.00 70	0.54	DDDD
ATOM	8197	N	PHE	D	23	-39.448	99.082	9.654	1.00 72	2.41	DDDD
ATOM	8198	CA	PHE	D	23	-39.305	97.855	8.888			
ATOM									1.00 73		DDDD
	8199	CB	PHE	D	23	-40.636	97.455	8.261	1.00 72	.59	DDDD
ATOM	8200	CG	PHE	D	23	-40.696	96.018	7.859	1.00 72	.59	DDDD
ATOM	8201	CD1	PHE	D	23	-40.911	95.027	8.812			
									1.00 72		DDDD
ATOM	8202		PHE	Ð	23	-40.497	95.643	6.534	1.00 72	.46	DDDD
MOTA	8203	CE1	PHE	D	23	-40.926	93.683	8.455	1.00 72	00.1	DDDD
MOTA	8204	CE2	PHE	D	23	-40.508	94.298	6.164			
ATOM	8205								1.00 71		DDDD
		CZ	PHE	D	23	-40.723	93.317	7.127	1.00 71	. 69	DDDD
ATOM	8206	C	PHE	Ð	23	-38.275	98.053	7.791	1.00 75	51	DDDD
MOTA	8207	0	PHE	D	23	-38.310	99.051				
ATOM								7.068	1.00 75		DDDD
	8208	И	LEU	Ŋ	24	-37.349	97.109	7.669	1.00 77	.58	DDDD
ATOM	8209	CA	LEU	D	24	-36.330	97.208	6.635	1.00 79	44	DDDD
MOTA	8210	CB	LEU	D	24	-35.046					
							96.506	7.075	1.00 80	.25	DDDD
ATOM	8211	CG	TEA	D	24	-34.372	97.107	8.312	1.00 81	.26	DDDD
ATOM	8212	CD1	LEU	D	24	-33.016	96.436	8.511	1.00 80	66	DDDD
ATOM	8213		LEU	D	24						
						-34.215	98.625	8.149	1.00 80	.26	DDDD
ATOM	8214	C	LEU	D	24	-36.841	96.605	5.335	1.00 80	.41	DDDD
TATOM	8215-	-0	LEU-	D	··24	-36.739	95.397	5.104	08-00:1-	27-	DDDD.
ATOM	8216	N	VAL		25						
						-37.415	97.471	4.505	1.00 81	.42	DDDD
ATOM	8217	CA	VAL	D	25	-37.956	97.099	3.205	1.00 81	.36	DDDD
ATOM	8218	CB	VAL	D	25	-37.990	98.334	2.264	1.00 82	38	DDDD
MOTA	8219	CG1	VAL		25						
						-38.218	97.898	0.825	1.00 83		DDDD
MOTA	8220	CG2	VAL		25	-39.082	99.303	2.711	1.00 81	.68	DDDD
ATOM	8221	С	VAL	D	25	-37.068	96.034	2.585	1.00 80		DDDD
ATOM	8222	0	VAL		25	-37.524					
							94.951	2.224	1.00 80		DDDD
ATOM	8223	N	GLN	D	26	-35.787	96.364	2.488	1.00 80	.80	DDDD
ATOM	8224	CA	GLN	D	26	-34.783	95.482	1.915	1.00 81		DDDD
ATOM	8225	CB	GLN		26	-33.425					
							96.184	1.956	1.00 81		DDDD
A <b>T</b> OM	8226	CG	GLN	D	26	-32.359	95.524	1.112	1.00 82	.08	DDDD
A <b>T</b> OM	8227	CD	GLN	D	26	-32.656	95.608	-0.369	1.00 82	61	DDDD
ATOM	8228										
			GLN		26	-31.834	96.091	-1.148	1.00 81	.48	DDDD
ATOM	8229	NE2	GLN	D	26	-33.834	95.133	-0.770	1.00 82	.43	DDDD
ATOM	8230	C	GLN	D	26	-34.685	94.115	2.611	1.00 81		
ATOM	8231	ō									DDDD
			GLN		26	-35.312	93.143	2.189	1.00 81	.29	DDDD
MOTA	8232	N	GLU	D	27	-33.895	94.048	3.678	1.00 80	.48	DDDD
ATOM	8233	CA	GLU	D	27	-33.706	92.803	4.412	1.00 79		
ATOM	8234										DDDD
		СВ	GLU		27	-32.774	93.038	5.599	1.00 78	.58	DDDD
MOTA	8235	CG	GLU	D	27	-31.337	92.643	5.313	1.00 77	.40	DDDD
ATOM	8236	CD	GLU	D	27	-31.198	91.160	4.990	1.00 76		
ATOM	8237										DDDD
		OE1			27	-31.570	90.320	5.839	1.00 75	.76	DDDD
MOTA	8238	OE2	GLU	D	27	-30.715	90.833	3.886	1.00 76	.13	DDDD
ATOM	8239	С	GLU		27	-34.993	92.136	4.883			
	8240								1.00 79		DDDD
ATOM		0	GLU		27	-34.964	91.038	5.447	1.00 78	.22	DDDD
ATOM	8241	N	ASP	D	28	-36.121	92.798	4.648	1.00 79	.02	DDDD
ATOM	8242	CA	ASP		28	-37.417					
							92.259	5.044	1.00 78		DDDD
ATOM	8243	CB	ASP		28	-37.810	91.108	4.105	1.00 80	.34	DDDD
ATOM	8244	CG	ASP	D	28	-39.137	90.471	4.479	1.00 81	. 94	DDDD
ATOM	8245	OD1			28	-40.153	91.194	4.509	1.00 84		DDDD
				_			24.424	3.009	1.00 04	. 05	ממטט

ATOM	8246	OD2	ASP	D 2	8	-39.	166	89.249	4.741	1.00	82.05	DDDD
ATOM	8247	c	ASP		8	-37.		91.773	6.494		75.99	DDDD
ATOM	8248	Ö	ASP		28	-37.		90.579	6.760		76.07	DDDD
						_	_				72.95	DDDD
ATOM	8249	N	LYS		29	-37.		92.712	7.425			
MOTA	8250	CA	LYS		9	-37.		92.404	8.849		68.86	DDDD
ATOM	8251	CB	LYS	D 2	29	-36.	343	91.525	9.227	1.00	69.72	DDDD
ATOM	8252	CG	LYS	D 2	9	-34.	992	92.065	8.764	1.00	69.86	DDDD
ATOM	8253	CD	LYS	D 2	9	-33.	807	91.362	9.443	1.00	69.46	DDDD
ATOM	8254	CE	LYS		9	-33.		89.841	9.266	1.00	69.00	DDDD
	8255	NZ	LYS		29	-34.		89.146	10.180		66.82	DDDD
ATOM												
ATOM	8256	С	LYS		9	-37.		93.687	9.669		66.09	DDDD
ATOM	8257	0	LYS	D 2	9	-37.	033	94.724	9.192		66.19	DDDD
ATOM	8258	N	PRO	D 3	30	-38.	002	93.636	10.910	1.00	63.38	DDDD
ATOM	8259	CD	PRO	D 3	30	-38.	920	92.593	11.391	1.00	63.81	DDDD
ATOM	8260	CA	PRO		30	-38.		94.789	11.815	1.00	61.47	DDDD
ATOM	8261	CB	PRO		30	-39.		94.392	12.864		61.89	DDDD
												DDDD
ATOM	8262	CG	PRO		30	-39.		93.401	12.142		63.47	
ATOM	8263	С	PRO	D 3	30	-36.	663	95.063	12.450		59.37	DDDD
ATOM	8264	0	PRO	D 3	30	-35.	925	94.142	12.796	1.00	59.56	DDDD
ATOM	8265	N	ALA	D 3	31	-36.	345	96.342	12.588	1.00	56.65	DDDD
MOTA	8266	CA	ALA		31	-35.	100	96.787	13.195	1.00	53.19	DDDD
ATOM	8267	CB	ALA		31	-34.		97.249	12.130		53.16	DDDD
ATOM	8268	С	ALA		31	-35.		97.949	14.093		51.56	DDDD.
ATOM	8269	0	ALA	D 3	31	-36.	589	98.469	13.999		52.38	DDDD
ATOM	8270	N	CYS	D 3	32	-34.	589	98.365	14.969	1.00	49.42	DDDD
ATOM	8271	CA	CYS	D 3	32	-34.	914	99.465	15.854	1.00	45.17	DDDD
ATOM	8272	C	CYS	D 3	32	-33.	975	100.634	15.695	1.00	43.45	DDDD
ATOM	8273	0	CYS		32			100.549	15.048		40.89	DDDD
								99.017	17.316		46.79	DDDD
MOTA	8274	CB	CYS		32	-34.						
ATOM	8275	SG	CYS		32	-36.		97.757	17.788		47.52	DDDD
MOTA	8276	N	VAL	D 3	33	-34.	394	101.738	16.295		41.42	DDDD
ATOM	8277	CA	VAL	D 3	33	-33.	636	102.971	16.329	1.00	40.72	DDDD
ATOM	8278	CB	VAL	D 3	33	-34.	234	104.074	15.399	1.00	38.43	DDDD
ATOM	8279	CG1	VAL	D 3	33	-33.	268	105.244	15.292	1.00	35.19	DDDD
ATOM	8280		VAL		33			103.518	14.018		35.59	DDDD
								103.313	17.788		42.31	DDDD
MOTA	8281	C	VAL		33							
ATOM	8282	0	VAL		33			103.627	18.179		42.96	DDDD
MOTA	8283	И	CYS	D 3	34	-32.	831	103.202	18.599		44.66	DDDD
ATOM	8284	CA	CYS	D 3	34	-32.	930	103.459	20.030	1.00	44.07	DDDD
ATOM	8285	С	CYS	D 3	34	-32.	835	104.919	20.375	1.00	44.95	DDDD
ATOM	8286	0	CYS	D 3	34	-32.	187	105.687	19.658	1.00	45.06	DDDD
ATOM	8287	СВ	CYS		34			102.779	20.787		42.78	DDDD
		SG	CYS		34			101.050	20.403		42.58	DDDD
MOTA	8288											
ATOM	8289	N	HIS		35			105.275	21.497		46.05	DDDD
"MOTA	~ 8290~	CA	HIS	D3	35			1067627	22.035	1.00	487.44	DDDD
ATOM	8291			n 1	35	~ 4						
ATOM		CB	HIS	ט ג	, .	-34.	402	106.799	23.187		51.02	DDDD
ATOM	8292	CB CG	HIS HIS		35			106.799 106.524	23.187 22.812	1.00	51.02 56.71	
		CG	HIS	D 3		-35.	825	106.524		1.00 1.00		DDDD
АТОМ	8293	CG CD2	HIS HIS	D 3	35 35	-35. -36.	825 854	106.524 106.020	22.812 23.534	1.00 1.00 1.00	56.71 58.20	DDDD DDDD DDDD
ATOM	8293 8294	CG CD2 ND1	HIS HIS HIS	D 3	35 35 35	-35. -36. -36.	825 854 343	106.524 106.020 106.825	22.812 23.534 21.567	1.00 1.00 1.00 1.00	56.71 58.20 57.83	DDDD DDDD DDDD
ATOM	8293 8294 8295	CG CD2 ND1 CE1	HIS HIS HIS	D 3 D 3 D 3	35 35 35 35	-35. -36. -36.	.825 .854 .343 .628	106.524 106.020 106.825 106.518	22.812 23.534 21.567 21.539	1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88	DDDD DDDD DDDD DDDD DDDD
ATOM ATOM	8293 8294 8295 8296	CG CD2 ND1 CE1 NE2	HIS HIS HIS HIS	D 3 D 3 D 3 D 3 D 3	35 35 35 35 35	-35. -36. -36. -37.	.825 .854 .343 .628	106.524 106.020 106.825 106.518 106.029	22.812 23.534 21.567 21.539 22.720	1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41	DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM	8293 8294 8295 8296 8297	CG CD2 ND1 CE1 NE2 C	HIS HIS HIS HIS HIS	D 3 D 3 D 3 D 3 D 3 D 3	35 35 35 35 35	-35. -36. -36. -37. -37.	.825 .854 .343 .628 .964 .986	106.524 106.020 106.825 106.518 106.029 106.696	22.812 23.534 21.567 21.539 22.720 22.597	1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44	DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298	CG CD2 ND1 CE1 NE2 C	HIS HIS HIS HIS HIS	D 3 D 3 D 3 D 3 D 3 D 3	35 35 35 35 35 35	-35. -36. -36. -37. -37. -31.	825 854 343 628 964 986 441	106.524 106.020 106.825 106.518 106.029 106.696 105.675	22.812 23.534 21.567 21.539 22.720 22.597 23.026	1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM	8293 8294 8295 8296 8297	CG CD2 ND1 CE1 NE2 C	HIS HIS HIS HIS HIS	D 3 D 3 D 3 D 3 D 3 D 3	35 35 35 35 35	-35. -36. -36. -37. -37. -31.	825 854 343 628 964 986 441	106.524 106.020 106.825 106.518 106.029 106.696	22.812 23.534 21.567 21.539 22.720 22.597	1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298	CG CD2 ND1 CE1 NE2 C	HIS HIS HIS HIS HIS	D 3 D 3 D 3 D 3 D 3 D 3 D 3 D 3 D 3 D 3	35 35 35 35 35 35	-35. -36. -37. -37. -31. -31.	825 854 343 628 964 986 441	106.524 106.020 106.825 106.518 106.029 106.696 105.675	22.812 23.534 21.567 21.539 22.720 22.597 23.026	1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8299 8300	CG CD2 ND1 CE1 NE2 C O N	HIS HIS HIS HIS HIS HIS SER SER	D 3 D 3 D 3 D 3 D 3 D 3 D 3 D 3 D 3 D 3	35 35 35 35 35 35 35 36 36	-35. -36. -36. -37. -31. -31. -31.	825 854 343 628 964 986 441 374	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.870 107.956	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8299 8300 8301	CG CD2 ND1 CE1 NE2 C O N CA CB	HIS HIS HIS HIS HIS SER SER SER	D 3 D 3 D 3 D 3 D 5 D 5 D 5 D 5 D 5 D 5	35 35 35 35 35 35 35 36 36	-35. -36. -37. -37. -31. -31. -30. -29.	825 854 343 628 964 986 441 374 017	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.870 107.956 109.410	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8299 8300 8301 8302	CG CD2 ND1 CE1 NE2 C O N CA CB OG	HIS HIS HIS HIS HIS SER SER SER SER	D 3 D 3 D 3 D 3 D 5 D 5 D 5 D 5 D 5 D 5	35 35 35 35 35 35 35 36 36 36	-35. -36. -37. -37. -31. -31. -30. -29. -30.	825 854 343 628 964 986 441 374 017 575	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.870 107.956 109.410 110.087	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8299 8300 8301 8302 8303	CG CD2 ND1 CE1 NE2 C O N CA CB OG C	HIS HIS HIS HIS HIS SER SER SER SER	D 3 D 3 D 3 D 5 D 5 D 5 D 5 D 5 D 5 D 5	35 35 35 35 35 35 36 36 36 36 36	-35. -36. -37. -37. -31. -31. -30. -29. -30.	825 854 343 628 964 986 441 374 017 575 354 893	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.870 107.956 109.410 110.087 107.288	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8299 8300 8301 8302 8303 8304	CG CD2 ND1 CE1 NE2 C O N CA CB OG	HIS HIS HIS HIS HIS SER SER SER SER SER SER	D 3 D 3 D 3 D 5 D 5 D 5 D 5 D 5 D 5 D 5	35 35 35 35 35 35 36 36 36 36	-35. -36. -37. -37. -31. -31. -30. -29. -30. -29. -30.	825 854 343 628 964 986 441 374 017 575 354 893 804	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.870 107.956 109.410 110.087 107.288 107.376	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8299 8300 8301 8302 8303	CG CD2 ND1 CE1 NE2 C O N CA CB OG C	HIS HIS HIS HIS HIS SER SER SER SER	D 3 D 3 D 3 D 5 D 5 D 5 D 5 D 5 D 5 D 5	35 35 35 35 35 35 36 36 36 36 36	-35. -36. -37. -37. -31. -31. -30. -29. -30. -29. -30.	825 854 343 628 964 986 441 374 017 575 354 893 804	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.870 107.956 109.410 110.087 107.288	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 53.76 57.81 52.10 51.79 51.08	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8299 8300 8301 8302 8303 8304	CG CD2 ND1 CE1 NE2 C O N CA CB OG C	HIS HIS HIS HIS SER SER SER SER SER SER SER SER	D 3 D 3 D 3 D 5 D 5 D 5 D 5 D 5 D 5 D 5	35 35 35 35 35 35 36 36 36 36	-35. -36. -37. -37. -31. -31. -30. -29. -30. -29. -30. -29.	825 854 343 628 964 986 441 374 017 575 354 893 804 764	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.870 107.956 109.410 110.087 107.288 107.376	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8299 8300 8301 8302 8303 8304 8305 8306	CG CD2 ND1 CE1 NE2 C O N CA CB OG C O N	HIS HIS HIS HIS SER SER SER SER SER SER SER GLY GLY	D 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	35 35 35 35 35 36 36 36 36 36 36 37	-35363737313131302930293028.	825 854 343 628 964 986 441 374 017 575 354 893 804 764	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.956 109.410 110.087 107.288 107.376 106.607	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 53.76 57.81 52.10 51.79 51.08	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8299 8300 8301 8302 8303 8304 8305 8306 8307	CG CD2 ND1 CE1 NE2 C O N CA CB OG C O N CA	HIS HIS HIS HIS SER SER SER SER SER SER GLY GLY	D	35 35 35 35 35 35 36 36 36 36 36 37 37	-35363737313130293029302828.	825 854 343 628 964 986 441 374 017 575 354 893 804 764 517	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.870 107.956 109.410 110.087 107.288 107.376 106.607 105.939 104.481	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.40 57.81 52.10 51.79 51.08 47.35	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8299 8300 8301 8302 8303 8304 8305 8306 8307 8308	CG CD2 ND1 CE1 NE2 C O N CA CB OG C O N CA C	HIS HIS HIS HIS SER SER SER SER SER GLY GLY GLY	D	85 85 85 85 85 86 86 86 86 86 87 87 87	-35363637313131302930282828.	825 854 343 628 964 986 441 374 575 354 893 804 517 921	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.870 107.956 109.410 110.087 107.288 107.376 106.607 105.939 104.481 103.901	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79 51.79 545.11 46.30	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8299 8300 8301 8302 8303 8304 8305 8307 8308 8309	CG CD2 ND1 CE1 NE2 C O N CA CB OG C O N CA C	HIS HIS HIS HIS SER SER SER SER SER GLY GLY GLY TYR	D	35 35 35 35 35 36 36 36 36 36 37 37 37	-353636373131313029302928282829.	825 854 343 628 964 986 441 374 017 575 354 893 804 764 517 921	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.870 107.956 109.410 110.087 107.288 107.376 106.607 105.939 104.481 103.901 103.879	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133 24.906	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79 51.08 47.35 45.11 46.30 42.33	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8300 8301 8302 8303 8304 8305 8306 8307 8308 8309 8310	CG CD2 ND1 CE1 NE2 C O N CA CB OG C O N CA C O N CA	HIS HIS HIS HIS SER SER SER SER GLY GLY TYR	D	35 35 35 35 35 36 36 36 36 36 37 37 37	-35363737313131302930292828282929.	825 854 343 628 964 986 441 374 017 575 354 804 764 517 921 979 214	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.870 107.956 109.410 110.087 107.288 107.376 106.607 105.939 104.481 103.901 103.879 102.476	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133 24.906 24.883	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79 51.08 47.35 45.11 46.30 42.33 39.79	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8299 8300 8301 8302 8303 8304 8305 8306 8307 8308 8309 8310 8311	CG CD2 ND1 CE1 NE2 C O N CA CB OG C O N CA C O N CA C O O N CA C O O C O O O O O O O O O O O O O O	HIS HIS HIS HIS HIS SER SER SER SER GLY GLY GLY TYR TYR	D	35 35 35 35 35 36 36 36 36 36 37 33 37 33 37 38 38 38 38	-35363737313131302930282828282931.	825 854 343 628 964 986 441 374 017 575 354 893 804 764 517 921 979 214 602	106.524 106.020 106.825 106.518 106.696 105.675 107.870 107.956 109.410 110.087 107.288 107.376 106.607 105.939 104.481 103.901 103.879 102.476 102.328	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133 24.906 24.883 24.854	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79 51.08 47.35 45.11 46.30 42.33 39.79 38.34	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8300 8301 8302 8303 8304 8305 8306 8307 8308 8309 8310	CG CD2 ND1 CE1 NE2 C O N CA CB OG C O N CA C O N CA	HIS HIS HIS HIS SER SER SER SER GLY GLY TYR	D	35 35 35 35 35 36 36 36 36 36 37 37 37	-3536373731313131293028282828293131.	825 854 343 628 964 986 441 3575 354 893 804 764 517 921 979 2602 118 750	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.870 107.956 109.410 110.087 107.288 107.376 106.607 105.939 104.481 103.901 103.879 102.328 102.328 102.721	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133 24.906 24.883 24.854 26.155	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79 51.08 47.35 45.11 46.30 42.33 39.79 38.34 37.30	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8299 8300 8301 8302 8303 8304 8305 8306 8307 8308 8309 8310 8311	CG CD2 ND1 CE1 NE2 C O N CA C O N CA C C O C C C C C C C C C C C C C C C	HIS HIS HIS HIS HIS SER SER SER SER GLY GLY GLY TYR TYR	D	35 35 35 35 35 36 36 36 36 36 37 33 37 33 37 38 38 38 38	-3536373731313131293028282828293131.	825 854 343 628 964 986 441 3575 354 893 804 764 517 921 979 2602 118 750	106.524 106.020 106.825 106.518 106.696 105.675 107.870 107.956 109.410 110.087 107.288 107.376 106.607 105.939 104.481 103.901 103.879 102.476 102.328	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133 24.906 24.883 24.854	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79 51.08 47.35 45.11 46.30 42.33 39.79 38.34	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8299 8300 8301 8302 8303 8304 8305 8306 8307 8308 8310 8311 8312 8313	CG CD2 ND1 CE1 NE2 C O N CA C O N CA C C O N CA C C O C C C C C C C C C C C C C C C	HIS HIS HIS HIS SER SER SER SER GLY GLY TYR TYR TYR	D	35 35 35 35 35 36 36 36 36 36 36 37 37 37 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	-3536373131313132293028282828293131313132.	825 854 343 628 964 986 441 3017 575 354 893 804 764 517 921 979 214 214 118 750 025	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.976 109.410 110.087 107.288 107.376 106.607 105.939 104.481 103.901 103.879 102.476 102.328 102.721 104.057	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133 24.906 24.883 24.854 26.155	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79 51.08 47.35 45.11 46.30 42.33 39.79 38.34 37.30	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8299 8300 8301 8302 8303 8304 8305 8306 8307 8308 8311 8312 8313 8314	CG CD2 ND1 CE1 NE2 C O N CA C O N CA C C O N CA C C C C C C C C C C C C C C C C C	HIS HIS HIS HIS SER SER SER SER GLY GLY TYR TYR TYR	D	35 35 35 35 35 36 36 36 36 36 36 37 37 37 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	-3536373131313131293028282828293131313132.	825 854 343 628 964 986 441 301 575 354 893 804 764 517 921 979 214 6025 526	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.870 107.956 109.410 110.087 107.288 107.376 106.607 105.939 104.481 103.901 102.476 102.328 102.721 104.057 104.428	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133 24.883 24.883 24.854 26.155 26.441 27.680	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 52.07 53.76 57.81 52.10 51.79 51.08 47.35 45.11 46.30 42.33 43.37 38.34 37.30	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8300 8301 8302 8303 8304 8305 8306 8307 8308 8309 8311 8312 8313 8314 8315	CG CD2 ND1 CE1 NE2 C O N CA C O N CA C C O N CA C C C C C C C C C C C C C C C C C	HIS HIS HIS HIS SER SER SER SER GLY GLY TYR TYR TYR TYR TYR		35 35 35 35 35 36 36 36 36 36 36 37 37 37 37 37 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	-353637373131302930282828293131323232.	825 854 343 628 964 441 374 017 575 354 893 804 761 751 979 214 602 1118 750 025 526 002	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.956 109.410 110.087 107.288 107.376 106.607 105.939 104.481 103.901 103.879 102.476 102.328 102.721 104.057 104.428 101.759	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133 24.854 26.155 26.441 27.680 27.145	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 52.07 53.76 57.81 52.10 51.08 47.35 45.11 46.30 42.33 39.79 38.34 37.30 34.12 34.87 37.03	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8298 8300 8301 8302 8303 8304 8305 8306 8307 8308 8310 8311 8312 8313 8314 8315 8316	CG CD2 ND1 CE1 NE2 C O N CA CB OG C O N CA CB CG C CD1 CCD2 CE2 CE2	HIS HIS HIS HIS KIS KIS KIS KIS KIS KIS KIS KIS KIS K		35 35 35 35 35 36 36 36 36 37 37 37 37 37 37 38 38 38 38 38 38 38 38 38	-353637373131302930282828293131323232.	825 854 343 628 964 441 374 017 575 354 893 804 764 751 979 214 602 1118 750 025 526 002 502	106.524 106.020 106.825 106.518 106.029 106.696 105.675 107.956 109.410 110.087 107.288 107.376 106.607 105.939 104.481 103.901 103.879 102.476 102.328 102.721 104.057 104.428 101.759 102.120	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133 24.906 24.883 24.854 26.155 26.441 27.680 27.145 28.389	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79 51.08 42.33 39.79 38.34 37.30 34.12 37.03 34.03	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8300 8301 8302 8303 8304 8305 8306 8307 8308 8309 8310 8311 8312 8313 8314 8315 8316 8317	CG CD2 ND1 CE1 NE2 C O N CA CB CC O N CA CB CC C CD1 CE12 CC CZ CZ	HIS HIS HIS HIS KIS KIS KIS KIS KIS KIS KIS KIS KIS K		35 35 35 35 35 36 36 36 36 36 37 37 37 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	-353637373131302930282828293132323232.	825 854 343 628 964 986 441 374 017 575 354 893 804 764 519 211 602 1118 750 025 526 526 502 756	106.524 106.020 106.825 106.518 106.696 105.675 107.956 109.410 110.087 107.288 107.376 106.607 105.939 103.879 103.879 102.476 102.328 102.721 104.057 104.428 101.759 102.120 103.456	22.812 23.534 21.567 21.539 22.720 22.5026 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133 24.906 24.883 24.854 26.155 26.441 27.680 27.145 28.389 28.652	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79 51.08 47.35 45.11 46.30 42.33 39.79 38.34 37.30 34.12 37.03 34.03 36.66	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8299 8300 8301 8302 8303 8304 8305 8306 8310 8311 8312 8313 8314 8315 8316 8317 8318	CG CD2 ND1 CE1 NE2 C O N CA CB CG C O N CA CB CG C CD1 CE12 CC2 CC2 OH	HIS HIS HIS HIS SER SER SER SER GLY TYR TYR TYR TYR TYR TYR TYR		35 35 35 35 35 36 36 36 36 36 37 37 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	-3536363731313029302828282931313232323232.	825 854 343 628 964 986 441 374 017 575 354 893 804 764 517 979 214 602 118 750 025 526 526 527 560 197	106.524 106.020 106.825 106.518 106.696 105.675 107.870 107.956 109.410 110.087 107.288 107.376 106.607 105.939 104.481 103.901 103.879 102.328 102.721 104.057 104.428 102.721 104.057 104.428 101.759 102.120 103.456 103.831	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133 24.906 24.883 24.854 26.155 26.441 27.680 27.145 28.389 28.652 29.902	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79 51.08 47.35 45.11 46.30 42.33 39.79 38.34 37.30 34.12 34.87 37.03 34.03 34.03	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8300 8301 8302 8303 8304 8305 8306 8307 8308 8309 8310 8311 8312 8313 8314 8315 8316 8317	CG CD2 ND1 CE1 NE2 C O N CA CB CC O N CA CB CC C CD1 CE12 CC CZ CZ	HIS HIS HIS HIS KIS KIS KIS KIS KIS KIS KIS KIS KIS K		35 35 35 35 35 36 36 36 36 36 37 37 37 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	-353637313131313029302828293132323232323232.	825 854 343 628 964 986 441 37 357 354 893 804 764 517 921 214 602 118 750 025 526 002 5502 756 197	106.524 106.020 106.825 106.518 106.696 105.675 107.870 107.956 109.410 110.087 107.288 107.376 106.607 105.939 104.481 103.901 103.879 102.476 102.328 102.721 104.057 104.428 101.759 102.120 103.831 101.723	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133 24.906 24.883 24.854 26.155 26.441 27.680 27.145 28.652 29.902 23.727	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79 51.08 47.35 46.30 42.33 39.79 38.34 37.30 34.12 34.87 37.03 34.66 40.47 38.63	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8293 8294 8295 8296 8297 8299 8300 8301 8302 8303 8304 8305 8306 8310 8311 8312 8313 8314 8315 8316 8317 8318	CG CD2 ND1 CE1 NE2 C O N CA CB CG C O N CA CB CG C CD1 CE12 CC2 CC2 OH	HIS HIS HIS HIS SER SER SER SER GLY TYR TYR TYR TYR TYR TYR TYR		35 35 35 35 35 36 36 36 36 36 37 37 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38	-353637313131313029302828293132323232323232.	825 854 343 628 964 986 441 37 357 354 893 804 764 517 921 214 602 118 750 025 526 002 5502 756 197	106.524 106.020 106.825 106.518 106.696 105.675 107.870 107.956 109.410 110.087 107.288 107.376 106.607 105.939 104.481 103.901 103.879 102.328 102.721 104.057 104.428 102.721 104.057 104.428 101.759 102.120 103.456 103.831	22.812 23.534 21.567 21.539 22.720 22.597 23.026 22.611 23.135 23.239 24.202 24.510 25.347 24.723 25.988 26.050 27.133 24.906 24.883 24.854 26.155 26.441 27.680 27.145 28.389 28.652 29.902	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	56.71 58.20 57.83 57.88 60.41 49.44 50.17 50.47 52.07 53.76 57.81 52.10 51.79 51.08 47.35 45.11 46.30 42.33 39.79 38.34 37.30 34.12 34.87 37.03 34.03 34.03	DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD DDDD

ATOM	8321 N VAL D 39	-28.914 100.412 23.883 1.00 37.56	DDDD
ATOM	8322 CA VAL D 39	-28.325 99.570 22.860 1.00 36.13	DDDD
ATOM	8323 CB VAL D 39	0.5 0.05 0.0 0.0	DDDD
ATOM	8324 CG1 VAL D 39	25 242 442	DDDD
ATOM	8325 CG2 VAL D 39		DDDD
ATOM	8326 C VAL D 39		DDDD
ATOM	8327 O VAL D 39		DDDD
ATOM	8328 N GLY D 40	1.02	DDDD
ATOM	8329 CA GLY D 40		DDDD
ATOM	8330 C GLY D 40		DDDD
ATOM	8331 O GLY D 40		DDDD
ATOM	8332 N ALA D 41		DDDD
ATOM	8333 CA ALA D 41	21 002 01 100	DDDD
ATOM	8334 CB ALA D 41	24 050	DDDD
ATOM	8335 C ALA D 41	20 644	DDDD
ATOM	8336 O ALA D 41		DDDD
ATOM	8337 N ARG D 42	-33.404 95.317 18.189 1.00 46.94	DDDD
ATOM	8338 CA ARG D 42	-32.996 95.132 20.388 1.00 44.95	DDDD
ATOM		-34.312 95.612 20.763 1.00 43.65	DDDD
MTOM		-35.107 94.495 21.454 1.00 44.34	DDDD
ATOM		-35.398 93.264 20.567 1.00 47.09	DDDD
ATOM		-36.405 92.301 21.242 1.00 45.94	DDDD
ATOM	• • • •	-37.698 92.953 21.431 1.00 47.03	DDDD
ATOM	8343 CZ ARG D 42	-38.704 92.458 22.137 1.00 45.48	DDDD
ATOM	8344 NH1 ARG D 42	-38.590 91.286 22.737 1.00 45.23	DDDD
ATOM	8345 NH2 ARG D 42	-39.820 93.156 22.260 1.00 43.31	DDDD
	8346 C ARG D 42	-34.210 96.821 21.680 1.00 42.39	DDDD
ATOM	8347 O ARG D 42	-35.172 97.174 22.358 1.00 41.67	DDDD
MOTA	8348 N CYS D 43	-33.040 97.449 21.701 1.00 41.24	DDDD
MOTA	8349 CA CYS D 43	-32.826 98.620 22.540 1.00 39.91	DDDD
ATOM	8350 C CYS D 43	-33.230 98.325 23.972 1.00 38.26	DDDD
ATOM	8351 O CYS D 43	-33.777 99.183 24.672 1.00 38.48	DDDD
MOTA	8352 CB CYS D 43	-33.660 99.774 22.017 1.00 41.36	DDDD
ATOM	8353 SG CYS D 43	-33.299 100.209 20.296 1.00 42.36	DDDD
ATOM	8354 N GLU D 44	-32.938 97.112 24.409 1.00 37.00	DDDD
ATOM	8355 CA GLU D 44	-33.314 96.672 25.740 1.00 37.44	DDDD
ATOM	8356 CB GLU D 44	-33.458 95.144 25.757 1.00 37.01	DDDD
ATOM	8357 CG GLU D 44	-32.149 94.344 25.580 1.00 39.98	DDDD
ATOM	8358 CD GLU D 44	-31.745 94.094 24.123 1.00 43.39	DDDD
ATOM	8359 OE1 GLU D 44	-30.819 93.279 23.897 1.00 42.21	DDDD
ATOM	8360 OE2 GLU D 44	-32.341 94.700 23.202 1.00 45.04	DDDD
ATOM	8361 C GLUD 44	-32.368 97.093 26.851 1.00 37.12	DDDD
ATOM	8362 O GLUD 44	-32.782 97.203 28.007 1.00 37.92	DDDD
ATOM	8363 N HIS D 45	-31.112 97.351 26.495 1.00 36.22	DDDD
ATOM	8364 CA HIS D 45	-30.082 97.700 27.469 1.00 34.67	DDDD
ATOM	8365 CB HIS D 45	-28.870 96.813 27.229 1.00 32.81	DDDD
ATOM	8366 CG HIS D 45	-29.105 95.376 27.551 1.00 31.26	DDDD
ATOM	8367 CD2 HIS D 45	-29.984 94.786 28.395 1.00 32.33	DDDD
ATOM	8368 ND1 HIS D 45	-28.373 94.355 26.983 1.00 30.82	DDDD
MOTA	8369 CE1 HIS D 45	-28.794 93.198 27.461 1.00 32.42	DDDD
MOTA	8370 NE2 HIS D 45	-29.771 93.430 28.321 1.00 31.21	DDDD
ATOM	8371 C HIS D 45	-29.602 99.142 27.545 1.00 36.34	DDDD
ATOM	8372 O HIS D 45	-29.343 99.788 26.528 1.00 36.40	DDDD
ATOM	8373 N ALA D 46	-29.468 99.638 28.770 1.00 38.10	DDDD
ATOM	8374 CA ALA D 46	-28.963 100.984 28.993 1.00 39.27	DDDD
ATOM	8375 CB ALA D 46	-29.182 101.369 30.442 1.00 36.00	DDDD
ATOM	8376 C ALA D 46	-27.466 100.863 28.674 1.00 42.15	DDDD
ATOM	8377 O ALA D 46	-26.837 99.856 29.034 1.00 43.18	DDDD
ATOM	8378 N ASP D 47	-26.886 101.840 27.981 1.00 44.28	DDDD
ATOM	8379 CA ASP D 47	-25.464 101.733 27.660 1.00 48.13	DDDD
ATOM	8380 CB ASP D 47	-25.104 102.533 26.394 1.00 50.74	DDDD
ATOM	8381 CG ASP D 47	-25.292 104.040 26.554 1.00 55.45	DDDD
ATOM	8382 OD1 ASP D 47	-24.870 104.779 25.628 1.00 56.10	DDDD
ATOM	8383 OD2 ASP D 47	-25.854 104.490 27.584 1.00 55.78	DDDD
ATOM	8384 C ASP D 47	-24.634 102.187 28.846 1.00 48.88	DDDD
ATOM	8385 O ASP D 47	-24.125 103.304 28.890 1.00 50.24	DDDD
ATOM	8386 N LEU D 48	-24.502 101.291 29.813 1.00 49.79	DDDD
ATOM	8387 CA LEU D 48	-23.777 101.570 31.033 1.00 50.03	DDDD
ATOM	8388 CB LEU D 48	-23.448 100.262 31.738 1.00 43.92	DDDD
ATOM	8389 CG LEU D 48	-24.725 99.473 32.024 1.00 39.21	DDDD
ATOM	8390 CD1 LEU D 48	-24.414 98.269 32.907 1.00 38.29	DDDD
ATOM	8391 CD2 LEU D 48	-25.738 100.380 32.686 1.00 33.84	DDDD
ATOM	8392 C LEU D 48	-22.533 102.425 30.858 1.00 54.42	DDDD
ATOM	8393 O LEU D 48	-22.193 103.204 31.743 1.00 53.89	DDDD
ATOM	8394 N LEU D 49	-21.846 102.299 29.728 1.00 59.71	DDDD
ATOM	8395 CA LEU D 49	-20.662 103.136 29.519 1.00 65.06	DDDD
	<del>-</del>	1 211120 20.010 1.00 00.00	2000

ATOM	8396	CB LEU	D 49	-19.905 102.709	28.254	1.00 65.35	DDDD	
ATOM	8397	CG LEU		-19.195 101.362	28.421			
						1.00 67.09	DDDD	
ATOM	8398	CD1 LEU		-18.357 101.055	27.185	1.00 66.90	DDDD	
ATOM	8399	CD2 LEU		-18.317 101.408	29.675	1.00 65.93	DDDD	
ATOM	8400	C LEU I		-21.076 104.613	29.437	1.00 67.57	DDDD	
ATOM	8401	O LEU	D 49	-21.107 105.222	28.355	1.00 67.26	DDDD .	
ATOM	8402	N ALA	D 50	-21.394 105.151	30.615	1.00 69.32	DDDD	
ATOM	8403	CA ALA		-21.837 106.526	30.842	1.00 70.60	DDDD	
ATOM	8404	CB ALA		-22.284 107.183	29.535	1.00 71.26	DDDD	
ATOM	8405	C ALA		-23.014 106.444	31.815	1.00 71.55	DDDD	
ATOM	8406	OT1 ALA		-23.772 105.455	31.713	1.00 72.37	DDDD	
ATOM	8407	OT2 ALA	D 50	-23.177 107.357	32.656	1.00 71.45	DDDD	
ATOM	8408	OH2 WAT I	H 740	-16.818 109.746	64.857	1.00 65.87	нннн	
ATOM	8409	OH2 WAT I	H 742	10.566 57.569	26.005	1.00 35.08	нннн	
ATOM	8410	OH2 WAT I	H 743	-37.230 105.392	26.683	1.00 30.20	нннн	
ATOM	8411	OH2 WAT I		16.707 58.583	53.435	1.00 78.12	нннн	
ATOM	8412	OH2 WAT		7.669 41.566	68.779	1.00 54.86	нннн	
ATOM	8413	OH2 WAT		12.553 37.341	42.264	1.00 28.70	НННН	
ATOM	8414	OH2 WAT		20.286 34.395	34.019	1.00 29.50	нннн	
ATOM	8415	OH2 WAT		-16.020 72.724	53.375	1.00 48.72	нннн	
ATOM	8416	OH2 WAT I	1749	-27.461 97.574	30.470	1.00 23.20	нннн	
ATOM	8417	OH2 WAT	H 750	-5.903 30.107	69.838	1.00 34.73	нннн	
ATOM	8418	OH2 WAT H	751	20.125 44.739	57.981	1.00 28.84	нннн	
ATOM	8419	OH2 WAT		22.847 36.377	13.283	1.00 40.42	нннн	
ATOM	8420	OH2 WAT I		26.486 32.138	36.888	1.00 36.41	нннн	
ATOM	8421	OH2 WAT I		-26.065 97.686	13.932	1.00 38.41	нннн	
ATOM								
	8422	OH2 WAT I		-7.275 72.234	27.479	1.00 33.04	нннн	
ATOM	8423	OH2 WAT I		-18.213 74.386	12.461	1.00 34.92	нннн	
ATOM	8424	OH2 WAT I		-23.688 98.948	16.215	1.00 36.01	нннн	
ATOM	8425	OH2 WAT I	H 758	-31.330 104.901	8.663	1.00 52.95	нннн	
ATOM	8426	OH2 WAT I	H 759	-4.616 71.623	32.799	1.00 43.51	нннн	
ATOM	8427	OH2 WAT I	H 760	10.202 34.571	47.087	1.00 30.05	нннн	
ATOM	8428	OH2 WAT I	761	-27.604 93.007	50.788	1.00 39.57	нннн	
ATOM	8429	OH2 WAT I		7.639 48.007	47.007	1.00 32.64	нннн	
ATOM	8430	OH2 WAT		21.476 23.966	19.021	1.00 32.04	нннн	
ATOM	8431	OH2 WAT I		-33.451 100.613	52.546	1.00 41.02	нннн	
MOTA	8432	OH2 WAT		-26.914 83.917	33.695	1.00 53.62	нннн	
MOTA	8433	OH2 WAT		13.701 30.669	51.617	1.00 36.79	нннн	
ATOM	8434	OH2 WAT	1 767	20.283 45.200	48.577	1.00 41.53	нннн	
ATOM	8435	OH2 WAT I	1 768	8.454 26.965	61.736	1.00 39.43	LILILILI	
		Onz war		0.434 20.963	0100	1.00 35.43	нннн	
ATOM	8436	OH2 WAT I		-13.004 97.432	-4.461	1.00 50.73	нннн Н	
	8436	OH2 WAT I	H 769	-13.004 97.432	-4.461	1.00 50.73	нннн	
ATOM	8436 8437	OH2 WAT I	H 769	-13.004 97.432 -22.939 79.722	-4.461 35.832	1.00 50.73 1.00 44.14	нннн нннн	
ATOM ATOM	8436 8437 8438	OH2 WAT I OH2 WAT I OH2 WAT I	H 769 H 770 H 771	-13.004 97.432 -22.939 79.722 -20.863 78.338	-4.461 35.832 31.761	1.00 50.73 1.00 44.14 1.00 43.71	нннн нннн нннн	
ATOM ATOM ATOM	8436 8437 8438 8439	OH2 WAT I OH2 WAT I OH2 WAT I	H 769 H 770 H 771 H 772	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267	-4.461 35.832 31.761 17.744	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93	нннн нннн нннн нннн	·
ATOM ATOM ATOM	8436 8437 8438 8439	OH2 WAT I OH2 WAT I OH2 WAT I OH2 WAT I	H 769 H 770 H 771 H 772 H 773	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972	-4.461 35.832 31.761 17.744 33.677	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93	нинн нинн нинн нинн 	•
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8440 8441 8442 8443	OH2 WAT I	H 769 H 770 H 771 H 772 H 773 H 774 H 775 H 776	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 48.98 1.00 45.56 1.00 40.75	нинн нинн нинн нинн 	···
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8441 8442 8443	OH2 WAT I	H 769 H 770 H 771 H 772 H 774 H 775 H 776 H 777 H 778	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 48.98 1.00 45.56 1.00 40.75 1.00 40.10	ннин нинн нинн нинн нинн нинн нинн нин	
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8441 8442 8443 8444 8445 8446 8447 8448	OH2 WAT I	H 769 H 770 H 771 H 772 H 773 H 774 H 775 H 776 H 777 H 778 H 779 H 780 H 781	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 48.98 1.00 45.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50	ннин нинн нинн нинн нинн нинн нинн нин	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8440 8441 8442 8443 8444 8445 8446 8447 8448 8449	OH2 WAT I	H 769 H 770 H 771 H 772 H 773 H 774 H 775 H 776 H 777 H 778 H 779 H 780 H 781 H 782	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 48.98 1.00 45.56 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 53.53	ннин нинн нинн нинн нинн нинн нинн нин	
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8440 8441 8442 8443 8444 8445 8446 8447 8448 8449 8450 8451 8452	OH2 WAT I	H 769 H 770 H 771 H 772 H 773 H 775 H 776 H 777 H 778 H 778 H 780 H 781 H 782 H 783 H 785 H 785 H 786 H 787	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014	1.00 50.73 1.00 44.14 1.00 60.93 1.00 40.74 1.00 48.98 1.00 45.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 32.07 1.00 48.96 1.00 49.53	ннин нинн нинн нинн нинн нинн нинн нин	
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8444 8445 8444 8445 8446 8451 8453 8454 8453 8454	OH2 WAT I	H 769 H 770 H 771 H 772 H 773 H 775 H 776 H 777 H 778 H 778 H 781 H 782 H 783 H 784 H 785 H 786 H 787 H 788 H 788	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 62.1253 19.371 32.014 5.612	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 45.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 53.53 1.00 32.07 1.00 48.96 1.00 49.53 1.00 49.53 1.00 41.09 1.00 43.20 1.00 41.25	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	•
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8444 8445 8446 8447 8448 8449 8450 8451 8452 8453 8454 8455 8456 8457	OH2 WAT I	H 769 H 770 H 771 H 772 H 773 H 774 H 775 H 777 H 778 H 778 H 781 H 782 H 783 H 785 H 785 H 786 H 787 H 788 H 788 H 788	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 45.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 53.53 1.00 49.53 1.00 49.53 1.00 41.09 1.00 43.20 1.00 43.20 1.00 43.20 1.00 49.42	HHHH  HHHH  HHHH  HHHH  HHHH  HHHH  HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8441 8442 8444 8445 8446 8447 8446 8451 8451 8452 8453 8454 8455 8456 8457 8458	OH2 WAT I	H 769 H 770 H 771 H 772 H 773 H 774 H 775 H 777 H 778 H 778 H 780 H 781 H 785 H 785 H 786 H 787 H 788 H 788 H 788 H 789 H 790 H 791	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007 -5.294 82.585	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 45.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 53.53 1.00 32.07 1.00 49.53 1.00 41.09 1.00 43.20 1.00 43.20 1.00 41.25 1.00 30.04 1.00 49.42 1.00 49.42 1.00 44.65	HHHH  HHHH  HHHH  HHHH  HHHH  HHHH  HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8443 8444 8445 8446 8447 8446 8447 8450 8451 8452 8453 8454 8455 8456 8457 8458 8459	OH2 WAT I	H 769 H 770 H 771 H 772 H 773 H 775 H 776 H 777 H 778 H 778 H 780 H 781 H 782 H 783 H 784 H 785 H 787 H 788 H 788 H 789 H 789 H 791 H 792	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007 -5.294 82.585 -8.330 86.114	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690	1.00 50.73 1.00 44.14 1.00 60.93 1.00 40.74 1.00 48.98 1.00 45.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 32.07 1.00 48.96 1.00 49.53 1.00 41.09 1.00 43.20 1.00 41.25 1.00 49.42 1.00 49.42 1.00 49.42 1.00 49.65 1.00 49.17	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8443 8444 8445 8446 8447 8446 8447 8452 8453 8454 8455 8455 8455 8455 8455 8455	OH2 WAT I	H 769 H 770 H 771 H 772 H 773 H 775 H 776 H 777 H 778 H 778 H 780 H 781 H 783 H 784 H 788 H 788 H 788 H 788 H 788 H 789 H 791 H 792 H 793	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007 -5.294 82.585 -8.330 86.114 -8.504 95.395	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 48.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 53.53 1.00 49.53 1.00 49.53 1.00 41.09 1.00 43.20 1.00 43.20 1.00 40.25 1.00 40.25	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	••••
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8443 8444 8445 8446 8447 8445 8451 8452 8453 8454 8455 8455 8455 8456 8457 8456 8459 8460 8461	OH2 WAT I	H 769 H 770 H 771 H 772 H 775 H 7776 H 777 H 778 H 778 H 780 H 781 H 783 H 784 H 788 H 788 H 788 H 789 H 791 H 792 H 793 H 794	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007 -5.294 82.585 -8.330 86.114 -8.504 95.395 -3.950 68.822	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 48.96 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 53.53 1.00 32.07 1.00 48.96 1.00 49.53 1.00 41.09 1.00 43.20 1.00 41.25 1.00 30.04 1.00 49.42 1.00 49.42 1.00 49.58	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8444 8445 8444 8445 8445 8451 8452 8455 8455 8455 8456 8457 8456 8456 8456 8456 8456 8456 8456 8456	OH2 WAT I	H 769 H 770 H 771 H 772 H 775 H 7776 H 777 H 778 H 778 H 778 H 781 H 782 H 788 H 788 H 788 H 788 H 788 H 789 H 791 H 791 H 793 H 795	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007 -5.294 82.585 -8.330 86.114 -8.504 95.395 -3.950 68.822 -21.411 97.951	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 45.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 53.53 1.00 32.07 1.00 49.53 1.00 49.53 1.00 41.09 1.00 43.20 1.00 43.20 1.00 49.53 1.00 49.53 1.00 49.53 1.00 49.53 1.00 49.53 1.00 49.53 1.00 49.53	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8444 8445 8444 8445 8445 8451 8455 8455	OH2 WAT I	H 769 H 770 H 771 H 772 H 7775 H 7776 H 7776 H 7780 H 781 H 788 H 788 H 788 H 788 H 789 H 790 H 791 H 792 H 793 H 795 H 796	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007 -5.294 82.585 -8.330 86.114 -8.504 95.395 -3.950 68.822 -21.411 97.951 -17.148 78.337	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 45.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 53.53 1.00 49.53 1.00 49.53 1.00 41.09 1.00 43.20 1.00 49.53 1.00 49.53	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8444 8445 8444 8445 8451 8455 8455 8455	OH2 WAT I	H 769 H 770 H 771 H 771 H 772 H 7775 H 777 H 778 H 778 H 778 H 781 H 788 H 788 H 788 H 788 H 789 H 790 H 791 H 793 H 795 H 797	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007 -5.294 82.585 -8.330 86.114 -8.504 95.395 -3.950 68.822 -21.411 97.951 -17.148 78.337 -21.649 104.845	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305 25.689	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 45.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 53.53 1.00 49.53 1.00 49.55 1.00 49.55 1.00 49.55 1.00 49.55 1.00 49.55 1.00 49.55	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8444 8445 8444 8445 8445 8451 8455 8455	OH2 WAT I	H 769 H 770 H 771 H 771 H 772 H 7775 H 777 H 778 H 778 H 778 H 781 H 788 H 788 H 788 H 788 H 789 H 790 H 791 H 793 H 795 H 797	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007 -5.294 82.585 -8.330 86.114 -8.504 95.395 -3.950 68.822 -21.411 97.951 -17.148 78.337 -21.649 104.845	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 45.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 53.53 1.00 49.53 1.00 49.53 1.00 41.09 1.00 43.20 1.00 49.53 1.00 49.53	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8444 8445 8444 8445 8451 8455 8455 8455	OH2 WAT I	H 769 H 770 H 771 H 772 H 7775 H 7775 H 7780 H 788 H 788 H 788 H 788 H 788 H 788 H 789 H 791 H 792 H 793 H 798 H 798	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007 -5.294 82.585 -8.330 86.114 -8.504 95.395 -3.950 68.822 -21.411 97.951 -17.148 78.337 -21.649 104.845 -23.297 106.354	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305 25.689	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 45.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 53.53 1.00 49.53 1.00 49.55 1.00 49.55 1.00 49.55 1.00 49.55 1.00 49.55 1.00 49.55	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8444 8445 8444 8445 8451 8455 8455 8457 8455 8457 8458 8456 8457 8456 8456 8456 8456 8461 8462 8463 8464 8465	OH2 WAT I	H 769 H 770 H 771 H 772 H 775 H 7776 H 777 H 7778 H 7780 H 780 H 781 H 782 H 788 H 788 H 788 H 788 H 789 H 791 H 792 H 795 H 796 H 797 H 798 H 799	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007 -5.294 82.585 -8.330 86.114 -8.504 95.395 -3.950 68.822 -21.411 97.951 -17.148 78.337 -21.649 104.845 -23.297 106.354 -22.945 99.868	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305 25.689 11.263 21.301	1.00 50.73 1.00 44.14 1.00 60.93 1.00 40.74 1.00 48.98 1.00 45.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 49.53 1.00 49.53 1.00 41.09 1.00 41.09 1.00 41.25 1.00 41.25 1.00 41.25 1.00 47.77 1.00 49.17 1.00 49.58 1.00 49.58 1.00 55.20 1.00 58.99 1.00 28.02 1.00 28.02 1.00 26.89	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8443 8444 8445 8446 8447 8451 8452 8453 8454 8455 8455 8455 8456 8457 8466 8466 8466 8467	OH2 WAT I	H 769 H 770 H 771 H 771 H 772 H 777 H 777 H 777 H 777 H 778 H 780 H 781 H 788 H 788 H 788 H 788 H 791 H 792 H 793 H 795 H 799 H 799 H 799	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007 -5.294 82.585 -8.330 86.114 -8.504 95.395 -3.950 68.822 -21.411 97.951 -17.148 78.337 -21.649 104.845 -23.297 106.354 -22.945 99.868 11.097 34.016	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305 25.689 11.263 21.301 36.496	1.00 50.73 1.00 44.14 1.00 60.93 1.00 40.74 1.00 48.56 1.00 45.56 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 53.53 1.00 32.07 1.00 48.96 1.00 49.53 1.00 41.09 1.00 43.20 1.00 43.20 1.00 49.53 1.00 55.20 1.00 49.58 1.00 49.58 1.00 55.20 1.00 28.02 1.00 26.89 1.00 26.89 1.00 21.96	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8444 8444 8445 8444 8445 8446 8447 8448 8451 8452 8453 8454 8455 8455 8455 8455 8456 8461 8462 8466 8467 8468	OH2 WAT I	H 769 H 770 H 771 H 771 H 772 H 7775 H 7776 H 7777 H 7780 H 781 H 788 H 788 H 788 H 788 H 789 H 791 H 795 H 797 H 798 H 799 H 799 H 798	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007 -5.294 82.585 -8.330 86.114 -8.504 95.395 -3.950 68.822 -21.411 97.951 -17.148 78.337 -21.649 104.845 -23.297 106.354 -22.945 99.868 11.097 34.016 -20.399 85.072	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305 25.689 11.263 21.301 36.496 22.940	1.00 50.73 1.00 44.14 1.00 43.71 1.00 60.93 1.00 40.74 1.00 48.56 1.00 40.75 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 56.50 1.00 53.53 1.00 49.53 1.00 55.50 1.00 55.50 1.00 49.65 1.00 49.17 1.00 49.58 1.00 55.20 1.00 28.02 1.00 26.89 1.00 28.02 1.00 28.78	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8436 8437 8438 8439 8441 8442 8443 8444 8445 8446 8447 8451 8452 8453 8454 8455 8455 8455 8456 8457 8466 8466 8466 8467	OH2 WAT I OH2 WA	H 769 H 770 H 771 H 771 H 772 H 7775 H 7776 H 7777 H 7780 H 781 H 788 H 788 H 788 H 788 H 788 H 789 H 791 H 792 H 793 H 796 H 797 H 798	-13.004 97.432 -22.939 79.722 -20.863 78.338 20.144 26.267 -27.565 26.972 -30.870 90.953 35.056 40.840 16.842 46.414 -15.767 85.221 17.597 33.745 -13.321 94.071 14.806 49.089 -32.575 99.692 16.861 32.982 -22.264 98.430 1.826 15.243 15.727 32.508 18.885 24.190 -2.464 61.285 -27.629 104.018 -8.056 91.739 -33.810 107.007 -5.294 82.585 -8.330 86.114 -8.504 95.395 -3.950 68.822 -21.411 97.951 -17.148 78.337 -21.649 104.845 -23.297 106.354 -22.945 99.868 11.097 34.016 -20.399 85.072	-4.461 35.832 31.761 17.744 33.677 29.223 56.428 11.886 43.869 33.893 27.046 12.247 12.244 10.021 -2.454 62.144 52.253 19.371 32.014 5.612 6.150 42.613 19.018 1.690 10.053 34.925 16.477 8.305 25.689 11.263 21.301 36.496 22.940 20.569	1.00 50.73 1.00 44.14 1.00 60.93 1.00 40.74 1.00 48.56 1.00 45.56 1.00 40.10 1.00 32.88 1.00 35.11 1.00 66.29 1.00 53.53 1.00 32.07 1.00 48.96 1.00 49.53 1.00 41.09 1.00 43.20 1.00 43.20 1.00 49.53 1.00 55.20 1.00 49.58 1.00 49.58 1.00 55.20 1.00 28.02 1.00 26.89 1.00 26.89 1.00 21.96	HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH HHHH	

MOTA	8471	OH2	TAW	Н	805	6.105	34.376	34.636	1.00 51.06	нннн
ATOM	8472		WAT			9.180	47.730	35.425	1.00 50.40	
ATOM	8473		WAT			8.492				нннн
ATOM	8474		WAT				39.682	66.009	1.00 38.44	нннн
ATOM	8475					-28.780		48.796	1.00 55.26	нннн
			TAW			25.710	27.016	49.667	1.00 41.37	нннн
ATOM	8476		WAT			15.784	50.537	35.731	1.00 44.33	нннн
ATOM	8477		WAT			-13.405	74.331	53.995	1.00 59.27	нннн
MOTA	8478	OH2	WAT	Н	812	-15.200	79.651	-4.392	1.00 56.52	нннн
ATOM	8479	OH2	WAT	Н	813	-21.907		9.724	1.00 31.14	нннн
ATOM	8480		WAT			28.443	33.630	47.562		
ATOM	8481		WAT						1.00 35.33	нннн
						18.660	51.698	35.079	1.00 51.60	нннн
ATOM	8482		WAT			1.312	55.700	21.645	1.00 51.21	нннн
ATOM	8483		WAT			-3.255	96.961	15.474	1.00 56.67	нннн
ATOM	8484		WAT			-29.356	92.821	21.844	1.00 40.99	нннн
MOTA	8485	OH2	WAT	Н	819	1.564	85.668	18.299	1.00 47.82	нннн
ATOM	8486	OH2	WAT	Н	820	-42.649	95.130	25.046	1.00 57.55	нннн
ATOM	8487	C1	NAG	Ε	600	3.856	25.751	26.645	1.00 94.49	
ATOM	8488	C2	NAG		600	3.561	24.657			EEEE
ATOM	8489	N2	NAG		600			27.658	1.00 97.67	EEEE
ATOM						4.785	24.076	28.180	1.00 97.31	EEEE
	8490	C7	NAG		600	5.532	24.756	29.047	1.00 96.73	EEEE
ATOM	8491	07	NAG		600	6.712	25.030	28.834	1.00 96.68	EEEE
ATOM	8492	C8	NAG	Ε	60 <b>0</b>	4.883	25.190	30.355	1.00 96.85	EEEE
ATOM	8493	C3	NAG	Ε	600	2.703	23.608	26.964	1.00100.99	EEEE
MOTA	8494	03	NAG	Ε	600	2.396	22.558	27.872	1.00101.09	EEEE
ATOM	8495	C4	NAG	Е	600	1.404	24.256	26.451	1.00103.26	EEEE
ATOM	8496	04	NAG		600	0.703	23.308	25.617		
ATOM	8497	C5	NAG		600				1.00107.29	EEEE
ATOM	8498	05				1.677	25.553	25.637	1.00102.29	EEEE
			NAG		600	2.632	26.414	26.312	1.00 97.83	EEEE
ATOM	8499	C6	NAG		600	0.419	26.397	25.447	1.00104.24	EEEE
ATOM	8500	06	NAG		600	-0.598	25.648	24.746	1.00107.07	EEEE
ATOM	8501	C1	FUC	Ε	601	-1.876	26.245	24.725	1.00108.16	EEEE
ATOM	8502	C2	FUC	Ε	601	-2.545	26.253	26.114	1.00108.88	EEEE
ATOM	8503	02	FUC	Е	601	-2.322	25.011	26.767	1.00108.88	EEEE
ATOM	8504	C3			601	-2.004	27.395	26.979		
ATOM	8505	03			601				1.00109.58	EEEE
ATOM	8506	C4				-2.711	27.451	28.210	1.00109.90	EEEE
			FUC		601	-2.141	28.724	26.232	1.00109.35	EEEE
MOTA	8507	04	FUC			-3.512	29.028	26.016	1.00108.85	EEEE
ATOM	8508	C5	FUC			-1.409	28.637	24.888	1.00109.36	EEEE
ATOM	8509	05	FUC			-1.917	27.534	24.099	1.00108.88	ÉEEE
MOTA	8510	C6	FUC	Ε	601	-1.579	29.894	24.055	1.00109.41	EEEE
ATOM	8511	Cl	NAG	E	602	-0.510	22.836	26.094	1.00109.67	EEEE
ATOM				_	602		22.170	24.960		
	8512	C2	NAG	Ε	002	-1.292			1.00110-65	
ATOM		C2				-1.292 -1.576			1.00110.65	EEEE
	8513	C2 N2	NAG	E	602	-1.576	23.143	23.923	1.00110.47	eeee Eeee
ATOM	8513 8514	C2 N2 C7	NAG NAG	E E	602 602	-1.576 -1.152	23.143 22.937	23.923 22.680	1.00110.47 1.00110.25	eeee eeee eeee
ATOM -	8513 8514 8515	C2 N2 C7	NAG NAG NAG	E E	602 602 602	-1.576 -1.152 -1.881	23.143 22.937 22.501	23.923 22.680 21.792	1.00110.47 1.00110.25 1.00110.89	eeee eeee eeee
ATOM ATOM T	8513 8514 8515 8516	C2 N2 C7 O7 - C8	NAG NAG NAG NAG	E E E	602 602 602 602	-1.576 -1.152 -1.881 0.298	23.143 22.937 22.501 23.269	23.923 22.680 21.792 22.372	1.00110.47 1.00110.25 1.00110.89 1.00110.23	eeee Eeee Eeee Eeee
ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517	C2 N2 C7 O7 C8 C3	NAG NAG NAG NAG NAG	E E E	602 602 602 602 602	-1.576 -1.152 -1.881 0.298 -2.600	23.143 22.937 22.501 23.269 21.583	23.923 22.680 21.792 22.372 25.504	1.00110.47 1.00110.25 1.00110.89 1.00110.23 1.00111.77	eeee eeee eeee
ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518	C2 N2 C7 O7 C8 C3 O3	NAG NAG NAG NAG NAG NAG	E E E E	602 602 602 602 602 602	-1.576 -1.152 -1.881 0.298 -2.600 -3.247	23.143 22.937 22.501 23.269	23.923 22.680 21.792 22.372	1.00110.47 1.00110.25 1.00110.89 1.00110.23	eeee Eeee Eeee Eeee
ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517	C2 N2 C7 O7 C8 C3	NAG NAG NAG NAG NAG	E E E E	602 602 602 602 602 602	-1.576 -1.152 -1.881 0.298 -2.600 -3.247	23.143 22.937 22.501 23.269 21.583	23.923 22.680 21.792 22.372 25.504 24.483	1.00110.47 1.00110.25 1.00110.89 1.00110.23 1.00111.77 1.00112.54	EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518	C2 N2 C7 O7 C8 C3 O3	NAG NAG NAG NAG NAG NAG	EEEEE	602 602 602 602 602 602 602	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331	23.143 22.937 22.501 23.269 21.583 20.834 20.675	23.923 22.680 21.792 22.372 25.504 24.483 26.714	1.00110.47 1.00110.25 1.00110.89 1.00110.23 1.00111.77 1.00112.54 1.00111.88	EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519	C2 N2 C7 O7 C8 C3 O3 C4	NAG NAG NAG NAG NAG NAG	EEEEEE	602 602 602 602 602 602 602 602	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310	1.00110.47 1.00110.25 1.00110.89 1.00110.23 1.00111.77 1.00112.54 1.00111.88 1.00111.91	EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520	C2 N2 C7 O7 C8 C3 O3 C4 O4	NAG NAG NAG NAG NAG NAG NAG NAG	EEEEEEE	602 602 602 602 602 602 602 602 602	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748	1.00110.47 1.00110.25 1.00110.89 1.00110.23 1.00111.77 1.00112.54 1.00111.88 1.00111.91	EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522	C2 N2 C7 O7 C8 C3 O3 C4 O4 C5 O5	NAG NAG NAG NAG NAG NAG NAG NAG	EEEEEEEE	602 602 602 602 602 602 602 602 602	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130	1.00110.47 1.00110.25 1.00110.89 1.00110.23 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523	C2 N2 C7 O7 - C8 C3 O3 C4 O4 C5 O5 C6	NAG NAG NAG NAG NAG NAG NAG NAG NAG	EEEEEEEEE	602 602 602 602 602 602 602 602 602 602	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524	C2 N2 C7 O7 - C8 C3 O3 C4 O4 C5 O5 C6 O6	NAG NAG NAG NAG NAG NAG NAG NAG NAG	EEEEEEEEE	602 602 602 602 602 602 602 602 602 602	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04 1.00112.59	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525	C2 N2 C7 O7 C8 C3 O3 C4 O4 C5 O5 C6 O6 C1	NAG NAG NAG NAG NAG NAG NAG NAG NAG NAG	EEEEEEEEEE	602 602 602 602 602 602 602 602 602 602	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 52.932	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04 1.00112.59 1.00 44.29	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525 8526	C2 N2 C7 O7 C8 C3 O3 C4 O4 C5 O5 C6 O6 C1 C2	NAG NAG NAG NAG NAG NAG NAG NAG NAG NAG	EEEEEEEEEEE	602 602 602 602 602 602 602 602 602 602	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.748 27.130 28.903 29.774 52.932 51.614	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04 1.00112.59	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525 8526 8527	C2 N2 C7 C8 C3 O3 C4 O4 C5 O5 C6 O6 C1 C2 N2	NAG NAG NAG NAG NAG NAG NAG NAG NAG NAG	EEEEEEEEEEE	602 602 602 602 602 602 602 602 602 602	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 52.932	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04 1.00112.59 1.00 44.29	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525 8526 8527 8528	C2 N2 C7 O7 C8 C3 O3 C4 O4 C5 O5 C6 O6 C1 C2	NAG NAG NAG NAG NAG NAG NAG NAG NAG NAG		602 602 602 602 602 602 602 602 602 602	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.748 27.130 28.903 29.774 52.932 51.614	1.00110.47 1.00110.25 1.00110.89 1.00110.23 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525 8526 8527	C2 N2 C7 C8 C3 O3 C4 O4 C5 O5 C6 O6 C1 C2 N2	NAG NAG NAG NAG NAG NAG NAG NAG NAG NAG	EEEEEEEEEEEE	602 602 602 602 602 602 602 602 602 650 650 650	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 52.932 51.614 51.863 51.779	1.00110.47 1.00110.25 1.00110.89 1.00110.23 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04 1.00112.59 1.00 44.29 1.00 44.29 1.00 44.01 1.00 43.76	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525 8526 8527 8528	C2 N2 C7 C8 C3 O3 C4 O4 C5 O5 C6 O6 C1 C2 N2	NAG NAG NAG NAG NAG NAG NAG NAG NAG NAG	EEEEEEEEEEEEE	602 602 602 602 602 602 602 602 602 650 650 650	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 52.932 51.614 51.863 51.779 51.948	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.75 1.00111.75 1.00110.62 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 44.01 1.00 43.76 1.00 43.05	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525 8526 8527 8528 8529 8530	C2 N2 C7 C8 C3 O3 C4 O4 C5 O5 C6 O6 C1 C2 N2 C7 O7	NAG NAG NAG NAG NAG NAG NAG NAG NAG NAG	EEEEEEEEEEEEEE	602 602 602 602 602 602 602 602 650 650 650 650	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 52.932 51.614 51.863 51.779 51.948 51.459	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 43.76 1.00 43.76 1.00 43.05 1.00 41.16	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525 8526 8527 8528 8529 8530 8531	C2 N2 C7 C8 C3 O3 C4 C5 O5 C6 C1 C2 N2 C7 C7 C8 C3	NAG NAG NAG NAG NAG NAG NAG NAG NAG NAG		602 602 602 602 602 602 602 602 650 650 650 650 650	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 48.022	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 52.932 51.614 51.863 51.779 51.948 51.459 50.820	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00112.59 1.00112.59 1.00 44.29 1.00 45.81 1.00 44.01 1.00 43.76 1.00 43.05 1.00 48.38	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525 8526 8527 8527 8528 8529 8530 8531 8532	C2 N2 C7 O7 C8 C3 O3 C4 O4 C5 O5 C6 O6 C1 C2 N2 C7 O7 C8 C3	NAG NAG NAG NAG NAG NAG NAG NAG NAG NAG		602 602 602 602 602 602 602 602 602 650 650 650 650 650	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 48.022 47.440	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 52.932 51.614 51.863 51.779 51.948 51.459 50.820 49.571	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 43.76 1.00 43.76 1.00 43.05 1.00 48.38 1.00 49.01	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525 8526 8527 8528 8529 8530 8531 8532 8533	C2 N2 C7 O7 C8 C3 O3 C4 O4 C5 O5 C6 O6 C1 C2 C7 O7 C8 C3 O3 C4	NAG		602 602 602 602 602 602 602 602 602 650 650 650 650 650	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420 20.367	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 48.022 47.440 49.354	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 52.932 51.614 51.863 51.779 51.948 51.459 50.820 49.571 50.602	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 44.01 1.00 43.76 1.00 43.05 1.00 41.16 1.00 48.38 1.00 49.01 1.00 49.61	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8522 8522 8523 8524 8525 8526 8527 8529 8530 8531 8532 8533 8533	C2 N2 C7 C8 C3 O3 C4 O4 C5 C6 O6 C1 C2 C7 O7 C8 C3 O3 C4 O4	NAG		602 602 602 602 602 602 602 602 602 650 650 650 650 650 650	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420 20.367 21.283	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 44.514 43.463 47.440 49.354 50.299	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.748 27.130 28.903 29.774 52.932 51.614 51.863 51.779 51.948 51.459 50.820 49.571 50.602 50.011	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00112.04 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 43.05 1.00 43.05 1.00 43.05 1.00 48.38 1.00 49.01 1.00 49.61 1.00 49.61 1.00 56.78	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525 8526 8527 8528 8529 8530 8531 8532 8533 8534 8535	C2 N2 C7 C8 C3 C4 C4 C5 C6 C6 C1 C2 N2 C7 C7 C8 C3 C3 C4 C5 C5 C6 C1 C2 C7 C7 C7 C8 C3 C4 C5 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	NAG		602 602 602 602 602 602 602 602 602 650 650 650 650 650 650	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420 20.367 21.283 19.883	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 48.022 47.440 49.354	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 52.932 51.614 51.863 51.779 51.948 51.459 50.820 49.571 50.602	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 44.01 1.00 43.76 1.00 43.05 1.00 41.16 1.00 48.38 1.00 49.01 1.00 49.61	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8520 8521 8522 8523 8524 8525 8526 8527 8528 8527 8528 8529 8530 8531 8533 8533 8535 8536	C2 N2 C7 C8 C3 O3 C4 O4 C5 O5 C6 C1 C2 N2 C7 O7 C8 C3 O3 C4 C5 O5 C5 O5 C5 O5 C5 O5 C5 O5 C5 O5 C7 O7 C8 C7 O7 O7 C7 O7 O7 O7 O7 O7 O7 O7 O7 O7 O7 O7 O7 O7	NAG		602 602 602 602 602 602 602 602 650 650 650 650 650 650 650	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420 20.367 21.283	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 44.514 43.463 47.440 49.354 50.299	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.748 27.130 28.903 29.774 52.932 51.614 51.863 51.779 51.948 51.459 50.820 49.571 50.602 50.011	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00112.04 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 43.05 1.00 43.05 1.00 43.05 1.00 48.38 1.00 49.01 1.00 49.61 1.00 49.61 1.00 56.78	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525 8526 8527 8528 8529 8530 8531 8532 8533 8534 8535	C2 N2 C7 C8 C3 C4 C4 C5 C6 C6 C1 C2 N2 C7 C7 C8 C3 C3 C4 C5 C5 C6 C1 C2 C7 C7 C7 C8 C3 C4 C5 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	NAG		602 602 602 602 602 602 602 602 650 650 650 650 650 650 650	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420 20.367 21.283 19.883	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 48.022 47.440 49.354 50.299 49.905	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.748 27.130 28.903 29.774 52.932 51.614 51.863 51.779 51.948 51.459 50.820 49.571 50.602 50.011 51.941	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00112.04 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 43.76 1.00 49.61 1.00 56.78 1.00 49.60	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8520 8521 8522 8523 8524 8525 8526 8527 8528 8527 8528 8529 8530 8531 8533 8533 8535 8536	C2 N2 C7 C8 C3 O3 C4 O4 C5 O5 C6 C1 C2 N2 C7 O7 C8 C3 O3 C4 C5 O5 C5 O5 C5 O5 C5 O5 C5 O5 C5 O5 C7 O7 C8 C7 O7 O7 C7 O7 O7 O7 O7 O7 O7 O7 O7 O7 O7 O7 O7 O7	NAG		602 602 602 602 602 602 602 602 650 650 650 650 650 650 650 650	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420 20.367 21.283 19.883 19.079 19.030	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 48.022 47.440 49.354 50.299 49.905 48.925 51.144	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 52.932 51.614 51.779 51.948 51.459 50.820 49.571 50.602 50.011 52.645 51.767	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.75 1.00111.75 1.00110.62 1.00112.04 1.00112.04 1.00112.59 1.00 44.58 1.00 45.81 1.00 44.01 1.00 43.76 1.00 43.05 1.00 44.01 1.00 49.01 1.00 49.61 1.00 49.61 1.00 49.60 1.00 47.73 1.00 55.78	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8520 8521 8522 8523 8524 8525 8527 8528 8529 8530 8531 8533 8533 8533 8535 8537	C2 N2 C7 C8 C3 O3 C4 C5 O5 C6 C1 C2 N2 C7 O7 C8 C3 O3 C4 C5 C5 C6 C1 C2 C7 C7 C8 C3 C3 C6 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	NAG	EEEEEEEEEEEEEEEEEEE	602 602 602 602 602 602 602 602 650 650 650 650 650 650 650 650 650	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420 20.367 21.283 19.883 19.079 19.030 17.667	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.514 43.463 48.022 47.440 49.354 50.299 49.905 51.144 50.805	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 52.932 51.614 51.863 51.779 51.948 51.459 50.602 50.011 51.941 52.645 51.767 51.556	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00112.59 1.00112.59 1.00 44.29 1.00 45.81 1.00 44.01 1.00 43.76 1.00 43.76 1.00 43.05 1.00 44.01 1.00 43.76 1.00 49.61 1.00 49.61 1.00 49.61 1.00 49.60 1.00 49.60 1.00 49.73 1.00 55.73	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8520 8521 8522 8522 8523 8524 8522 8526 8527 8529 8530 8531 8532 8533 8533 8533 8533 8533 8533 8538	C2 N2 C7 C8 C3 O3 C4 C5 O5 C6 C1 C2 N2 C7 C7 C8 C3 O3 C4 C5 C6 C1 C2 N2 C7 C7 C8 C3 C3 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1 C1	NAG		602 602 602 602 602 602 602 602 650 650 650 650 650 650 650 650 650 650	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420 20.367 21.283 19.883 19.079 19.030 17.667 21.168	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.514 43.463 48.022 47.440 49.354 50.299 49.905 48.925 51.144 50.805 50.533	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 51.863 51.779 51.948 51.459 50.820 49.571 50.602 50.011 51.941 52.645 51.767 51.556 48.654	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00112.59 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 44.01 1.00 43.76 1.00 43.76 1.00 43.05 1.00 49.01 1.00 49.61 1.00 49.61 1.00 49.61 1.00 49.61 1.00 49.61 1.00 49.61 1.00 49.61 1.00 49.61 1.00 49.60 1.00 47.73 1.00 52.73 1.00 52.73 1.00 63.66	EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE EEEE
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8520 8522 8522 8522 8522 8523 8522 8522 8523 8533 853	C2 N2 C7 C8 C3 O3 C4 C5 O5 C6 C1 C2 N2 C7 C7 C8 C3 O3 C4 C5 C5 C6 C1 C2 C7 C7 C8 C3 C3 C4 C5 C6 C6 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	NAG		602 602 602 602 602 602 602 602 650 650 650 650 650 650 650 650 650 651 651	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.931 20.931 19.115 21.206 21.085 21.420 20.367 21.283 19.883 19.079 19.030 17.667 21.168 21.419	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 48.022 47.440 49.354 50.299 49.905 48.925 51.144 50.805 50.533 52.002	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 51.863 51.779 51.948 51.459 50.820 49.571 50.602 50.011 51.941 52.932 51.614 49.571 50.602 50.011 51.767 51.556 48.654 48.358	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00112.59 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 44.01 1.00 43.76 1.00 43.76 1.00 43.05 1.00 49.01 1.00 49.01 1.00 49.61 1.00 47.73 1.00 52.73 1.00 51.12 1.00 52.73 1.00 63.66 1.00 66.59	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8520 8522 8522 8522 8522 8523 8522 8523 8523	C2 N2 C7 C8 C3 C4 C5 C6 C6 C1 C2 N2 C7 C7 C8 C3 C4 C5 C6 C1 C2 N2 C7 C7 C8 C3 C4 C4 C5 C7 C7 C8 C3 C4 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	NAG		602 602 602 602 602 602 602 602 650 650 650 650 650 650 651 651	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420 20.367 21.283 19.883 19.079 19.030 17.667 21.168 21.419 20.477	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 48.022 47.440 49.354 50.299 49.905 51.144 50.533 52.002 52.817	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 28.903 29.774 52.932 51.614 51.863 51.7948 51.459 50.602 50.011 51.941 52.645 51.767 51.556 48.654 48.358 49.097	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 44.01 1.00 43.76 1.00 43.76 1.00 43.05 1.00 49.61 1.00 49.61 1.00 49.61 1.00 49.61 1.00 47.73 1.00 52.73 1.00 52.73 1.00 66.59 1.00 66.59	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8520 8522 85223 85224 85225 85227 85227 85230 85333 85333 85333 85336 85336 85336 8540 8541 8542	C2 N2 C7 C8 C3 C4 C5 C6 C6 C1 C2 N2 C7 C7 C8 C3 C3 C4 C5 C6 C1 C2 N2 C7 C7 C8 C3 C3 C4 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	NAG		602 602 602 602 602 602 602 602 602 650 650 650 650 650 650 651 651 651	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420 20.367 21.283 19.883 19.079 19.030 17.667 21.168 21.419 20.477 20.908	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 48.022 47.440 49.354 50.299 49.905 51.144 50.533 52.002 52.817 53.658	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 28.903 29.774 52.932 51.614 51.863 51.779 51.948 51.459 50.820 49.571 50.602 50.011 51.941 52.645 51.767 51.556 48.654 48.358 49.097 50.036	1.00110.47 1.00110.25 1.00110.89 1.00110.23 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 44.01 1.00 43.05 1.00 43.05 1.00 41.16 1.00 48.38 1.00 49.01 1.00 49.61 1.00 49.61 1.00 49.61 1.00 47.73 1.00 52.73 1.00 52.73 1.00 66.55 1.00 66.55 1.00 66.55	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8520 8522 8522 8522 8522 8522 8522 852	C2 N2 C7 C8 C3 C4 C5 C6 C6 C1 C2 N2 C7 C7 C8 C3 C3 C4 C5 C6 C1 C2 N2 C7 C7 C7 C8 C3 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	NAG		602 602 602 602 602 602 602 650 650 650 650 650 650 651 651 651 651	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420 20.367 21.283 19.883 19.079 19.030 17.667 21.168 21.419 20.477 20.908 21.956	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 48.022 47.440 49.354 50.299 49.905 48.925 51.144 50.805 50.533 52.002 53.658 53.485	23.923 22.680 21.792 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 51.948 51.459 50.820 49.571 50.602 50.011 51.941 52.645 51.767 51.556 48.654 48.358 49.097 50.036 50.680	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.75 1.00112.04 1.00112.04 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 43.05 1.00 44.01 1.00 43.05 1.00 49.01 1.00 49.01 1.00 49.61 1.00 49.61 1.00 49.61 1.00 49.61 1.00 49.61 1.00 47.73 1.00 52.73 1.00 66.55 1.00 66.55 1.00 66.55 1.00 66.73	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8520 8521 8522 8522 8522 8522 8522 8523 85225 85225 8523 8533 853	C2 N2 C7 C8 C3 O4 C5 O5 C6 O6 C1 C7 C7 C8 C3 O3 C4 C5 O5 C6 C1 C7 C7 C8 C3 C3 C3 C4 C5 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	NAG		602 602 602 602 602 602 602 650 650 650 650 650 650 651 651 651 651	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420 20.367 21.283 19.883 19.079 19.030 17.667 21.168 21.419 20.477 20.908	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 48.022 47.440 49.354 50.299 49.905 51.144 50.533 52.002 52.817 53.658	23.923 22.680 21.792 22.372 25.504 24.483 26.714 27.310 28.903 29.774 52.932 51.614 51.863 51.779 51.948 51.459 50.820 49.571 50.602 50.011 51.941 52.645 51.767 51.556 48.654 48.358 49.097 50.036	1.00110.47 1.00110.25 1.00110.89 1.00110.23 1.00111.77 1.00112.54 1.00111.88 1.00111.91 1.00111.75 1.00110.62 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 44.01 1.00 43.05 1.00 43.05 1.00 41.16 1.00 48.38 1.00 49.01 1.00 49.61 1.00 49.61 1.00 49.61 1.00 47.73 1.00 52.73 1.00 52.73 1.00 66.55 1.00 66.55 1.00 66.55	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8513 8514 8515 8516 8517 8518 8520 8522 8522 8522 8522 8522 8522 852	C2 N2 C7 C8 C3 C4 C5 C6 C6 C1 C2 N2 C7 C7 C8 C3 C3 C4 C5 C6 C1 C2 N2 C7 C7 C7 C8 C3 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	NAG		602 602 602 602 602 602 602 650 650 650 650 650 650 651 651 651 651	-1.576 -1.152 -1.881 0.298 -2.600 -3.247 -2.331 -3.566 -1.460 -0.248 -1.046 -0.156 19.802 20.211 20.943 20.331 19.115 21.206 21.085 21.420 20.367 21.283 19.883 19.079 19.030 17.667 21.168 21.419 20.477 20.908 21.956	23.143 22.937 22.501 23.269 21.583 20.834 20.675 20.301 21.402 21.881 20.513 21.195 47.729 47.062 45.837 44.661 44.514 43.463 48.022 47.440 49.354 50.299 49.905 48.925 51.144 50.805 50.533 52.002 53.658 53.485	23.923 22.680 21.792 25.504 24.483 26.714 27.310 27.748 27.130 28.903 29.774 51.948 51.459 50.820 49.571 50.602 50.011 51.941 52.645 51.767 51.556 48.654 48.358 49.097 50.036 50.680	1.00110.47 1.00110.25 1.00110.89 1.00111.77 1.00112.54 1.00111.88 1.00111.75 1.00112.04 1.00112.04 1.00112.04 1.00112.59 1.00 44.29 1.00 45.81 1.00 43.05 1.00 44.01 1.00 43.05 1.00 49.01 1.00 49.01 1.00 49.61 1.00 49.61 1.00 49.61 1.00 49.61 1.00 49.61 1.00 47.73 1.00 52.73 1.00 66.55 1.00 66.55 1.00 66.55 1.00 66.73	

ATOM	8546	03	NAG E 651	21.522	53.581	46.532	1.00 71.04	EEEE
ATOM	8547	C4	NAG E 651	22.238	51.305	46.085	1.00 74.63	EEEE
ATOM	8548	04	NAG E 651	22.010	51.428	44.660	1.00 83.11	EEEE
MOTA	8549	C5	NAG E 651	22.018	49.848	46.531	1.00 71.58	EEEE
MOTA	8550	05	NAG E 651	22.140	49.738	47.968	1.00 67.17	EEEE
ATOM	8551	C6	NAG E 651	23.015	48.883	45.932	1.00 71.90	EEEE
ATOM	8552	06	NAG E 651	23.088	47.691	46.696	1.00 74.00	EEEE
ATOM	8553	C1	MAN E 652	23.076	51.133	43.808	1.00 90.93	EEEE
ATOM	8554	C2	MAN E 652	22.551	50.874	42.381	1.00 94.12	EEEE
ATOM	8555	02	MAN E 652	21.721 23.709	51.954 50.707	41.973 41.379	1.00 95.19 1.00 96.77	EEEE EEEE
ATOM ATOM	8556 8557	C3 O3	MAN E 652 MAN E 652	23.180	50.668	40.033	1.00101.24	EEEE
ATOM	8558	C4	MAN E 652	24.687	51.878	41.506	1.00 95.95	EEEE
ATOM	8559	04	MAN E 652	25.815	51.653	40.674	1.00 95.94	EEEE
ATOM	8560	C5	MAN E 652	25.135	52.029	42.964	1.00 94.94	EEEE
ATOM	8561	05	MAN E 652	23.986	52.247	43.815	1.00 93.08	EEEE
ATOM	8562	C6	MAN E 652	26.076	53.199	43.166	1.00 94.73	EEEE
ATOM	8563	06	MAN E 652	27.414	52.837	42.851	1.00 94.94	EEEE
ATOM	8564	C1	MAN E 653	23.275	49.475	39.286	1.00104.77	EEEE
ATOM	8565	C2	MAN E 653	22.719	48.253	40.046	1.00106.30	EEEE
ATOM	8566	02	MAN E 653	22.358	47.233	39.123	1.00105.68	EEEE
ATOM	8567	C3	MAN E 653	23.748	47.705	41.040	1.00107.40	EEEE
ATOM	8568	03	MAN E 653	23.266	46.494	41.608	1.00107.05	EEEE
ATOM	8569	C4	MAN E 653	25.089	47.457 47.031	40.338	1.00107.79	EEEE
ATOM	8570 8571	04 C5	MAN E 653 MAN E 653	26.058 25.577	47.031	41.287 39.648	1.00109.07	EEEE EEEE
ATOM ATOM	8572	05	MAN E 653	24.572	49.227	38.727	1.00107.00	EEEE
ATOM	8573	C6	MAN E 653	26.844	48.494	38.836	1.00105.03	EEEE
ATOM	8574	06	MAN E 653	27.817	49.506	39.059	1.00105.37	EEEE
ATOM	8575	C1	NAG F 600		106.864	19.712	1.00 83.03	
ATOM	8576	C2	NAG F 600		108.204	20.295	1.00 86.98	FFFF
ATOM	8577	N2	NAG F 600	-10.814	108.530	19.890	1.00 86.84	FFFF
ATOM	8578	C7	NAG F 600	-11.763	108.652	20.815	1.00 86.33	FFFF
MOTA	8579	07	NAG F 600		107.694	21.249	1.00 84.27	FFFF
ATOM	8580	C8	NAG.F 600		110.050	21.348	1.00 86.65	FFFF
ATOM '	8581	C3	NAG F 600		109.280	19.838	1.00 90.68	FFFF
ATOM	8582	03	NAG F 600		110.516	20.443	1.00 89.20 1.00 94.60	FFFF FFFF
ATOM ATOM	8583 8584	C4 O4	NAG F 600 NAG F 600		108.888	20.250 19.684	1.00102.59	FFFF
ATOM	8585	C5	NAG F 600		107.458	19.802	1.00102.33	FFFF
ATOM	8586	05	NAG F 600		106.524	20.215	1.00 87.50	FFFF
MOTA	8587	C6	NAG F 600		106.979	20.419	1.00 93.97	FFFF
ATOM	8588	06	NAG F 600	-5.545	106.862	21.853	1.00 95.37	FFFF
ATOM	8589	C1	FUC F 601	-4.307	106.767	22.511	1.00 95.80	FFFF
-ATOM	-8590-	C2	FUC F 601	=4.510	106.855	24:030	-1::0095::52-	FFFF-
ATOM	8591	02	FUC F 601		107.990	24.346	1.00 95.96	FFFF
MOTA	8592	C3	FUC F 601		105.592	24.554	1.00 95.29	FFFF
ATOM	8593	03	FUC F 601		105.635	25.972	1.00 95.18	FFFF
ATOM	8594	C4	FUC F 601		104.331	24.100 24.755	1.00 94.60 1.00 94.89	FFFF FFFF
ATOM ATOM	8595 8596	O4 C5	FUC F 601 FUC F 601		104.250	22.582	1.00 94.89	FFFF
ATOM	8597	05	FUC F 601		105.573	22.178	1.00 95.49	FFFF
ATOM	8598	C6	FUC F 601		103.201	22.104	1.00 94.22	FFFF
ATOM	8599	Cl	NAG F 602		110.318	20.577	1.00109.41	FFFF
MOTA	8600	C2	NAG F 602	-4.001	110.955	19.821	1.00112.17	FFFF
ATOM	8601	N2	NAG F 602	-3.288	109.935	19.073	1.00113.47	FFFF
MOTA	8602	C7	NAG F 602		110.201	17.865	1.00114.42	FEFF
MOTA	8603	07	NAG F 602		109.951	16.825	1.00114.69	FFFF
ATOM	8604	C8	NAG F 602		110.830	17.793	1.00114.38	FFFF
ATOM	8605	C3	NAG F 602		111.623	20.807	1.00114.27	FFFF FFFF
ATOM	8606 8607	O3 C4	NAG F 602 NAG F 602		112.402	20.084	1.00114.19	FFFF
ATOM ATOM	8608	04	NAG F 602		112.524 112.906	22.876	1.00113.81	FFFF
ATOM	8609	C5	NAG F 602		111.792	22.436	1.00114.33	FFFF
ATOM	8610	05	NAG F 602		111.295	21.395	1.00112.02	FFFF
MOTA	8611	C6	NAG F 602		112.681	23.328	1.00113.69	FFFF
MOTA	8612	06	NAG F 602		112.114	24.622	1.00112.81	FFFF
MOTA	8613	C1	MAN F 603		113.954	22.617	1.00121.42	FFFF
MOTA	8614	C2	MAN F 603		115.283	22.584	1.00122.42	FFFF
MOTA	8615	02	MAN F 603		115.456	23.802	1.00122.11	FFFF
MOTA	8616	C3	MAN F 603		116.441	22.385	1.00122.96	FFFF
ATOM	8617	03	MAN F 603		117.677	22.453	1.00122.92	FFFF
ATOM	8618	C4	MAN F 603		116.394	23.462	1.00123.19	FFFF FFFF
ATOM ATOM	8619 8620	O4 C5	MAN F 603 MAN F 603		117.400 115.011	23.209 23.473	1.00123.24	FFFF
AT ON	0020	CJ	LILTIN E 003	-0.001	110.011	23.413	7.00155.0I	

7.000				_						
ATOM	8621	05	MAN	F	603	-0.993	113.976	23.662	1.00122.20	FFFF
ATOM	8622	C6	MAN	F	603	1.014	114.868	24.597	1.00122.79	FFFF
ATOM	8623	06	MAN	F	603		113.663	24.477	1.00122.33	
ATOM	8624	C1			630					FFFF
						-6.213		-10.242	1.00 98.75	FFFF
ATOM	8625	C2			630	-6.835	77.432	-10.544	1.00100.36	FFFF
MOTA	8626	N2	NAG	E	630	-7.896	77.149	-9.594	1.00100.86	FFFF
ATOM	8627	C7	NAG	F	630	-9.060		-10.017	1.00101.08	FFFF
ATOM	8628	07			630	-9.215				
								-10.347	1.00101.12	FFFF
ATOM	8629	C8			630	-10.231	77.636	-10.087	1.00100.63	FFFF
ATOM	8630	C3	NAG	F	630	-5.749	76.355	-10.448	1.00101.40	FFFF
ATOM	8631	03	NAG	F	630	-6.284		-10.864	1.00101.56	
ATOM	8632	C4	NAG							FFFF
ATOM	8633					-4.528		-11.317	1.00101.71	FFFF
		04			630	-3.463	75.813	-11.040	1.00102.98	FFFF
MOTA	8634	C5	NAG	F	630	-4.056	78.156	-11.044	1.00101.26	FFFF
ATOM	8635	05	NAG	F	630	-5.162	79.077	-11.175	1.00100.21	FFFF
ATOM	8636	C6	NAG	F	630	-2.974		-12.009		
MOTA	8637	06			630				1.00101.02	FFFF
						-1.864		-11.319	1.00100.24	FFFF
ATOM	8638	C1	NAG	F	650	~39.620	85.665	29.716	1.00 58.68	FFFF
ATOM	8639	C2	NAG	F	650	-38.850	86.149	28.498	1.00 59.35	FFFF
ATOM	8640	N2	NAG	F	650	-39.327	87.460	28.108	1.00 58.12	
ATOM	8641	C7			650	-38.476				FFFF
							88.416	27.742	1.00 58.77	FFFF
ATOM	8642	07			650	-38.665	89.606	28.005	1.00 56.98	FFFF
ATOM	8643	C8	NAG	F	650	-37.246	88.005	26.933	1.00 58.71	FFFF
ATOM	8644	C3	NAG	F	650	-39.047	85.147	27.344	1.00 61.66	FFFF
MOTA	8645	03	NAG		650	-38.268				
ATOM							85.535	26.217	1.00 62.32	FFFF
	8646	C4			650	-38.668	83.717	27.774	1.00 61.84	FFFF
ATOM	8647	04	NAG	E	650	-39.062	82.776	26.745	1.00 63.47	FFFF
ATOM	8648	C5	NAG	F	650	-39.386	83.365	29.089	1.00 62.78	FFFF
ATOM	8649	05			650	-39.135	84.375			
ATOM	8650		NAG					30.100	1.00 62.07	FFFF
		C6			650	-38.935	82.039	29.665	1.00 64.17	FFFF
ATOM	8651	06	NAG	F	650	-37.523	82.001	29.827	1.00 66.42	FFFF
ATOM	8652	C1	NAG	F	651	-38.076	82.313	25.885	1.00 65.06	FFFF
ATOM	8653	C2	NAG	F	651	-38.397	80.889	25.423	1.00 65.02	
ATOM	8654	N2			651	-38.467				FFFF
ATOM	8655						80.003	26.565	1.00 64.20	FFFF
		C7	NAG		651	-39.622	79.438	26.889	1.00 63.41	FFFF
ATOM	8656	07	NAG	F	651	-40.715	79.935	26.607	1.00 62.73	FFFF
ATOM	8657	C8	NAG	E	651	-39.551	78.121	27.642	1.00 63.39	FFFF
ATOM	8658	C3	NAG	F	651	-37.306	80.415	24.463	1.00 65.15	
ATOM	8659	03	NAG		651	-37.624				FFFF
ATOM	8660	C4					79.130	23.962	1.00 64.27	FFFF
					651	-37.171	81.387	23.301	1.00 67.21	FFFF
ATOM	8661	04	NAG	F	651	-36.067	81.000	22.492	1.00 69.05	FFFF
MOTA	8662	C5	NAG	F	651	-36.960	82.812	23.831	1.00 68.18	FFFF
ATOM	8663	05	NAG	F	651	-38.026	83.175	24.743	1.00 67.14	
ATOM	8664	C6			651					FFFF
						-36.944	83.846	22.725	1.00 69.10	FFFF
MOTA	8665	06			651		83.805	22.007	71.700 71.95	FFFF
ATOM	8666	PT+2	PT2	G	702	-12.937	-33.586	36.278	0.50 58.16	GGGG
MOTA	8667	PT+2	PT2	G	706	-20.700	98.681	23.092	0.60 55.80	GGGG
ATOM	8668	PT+2	PT2	G	707	-14.020	65.178	36.237	0.50 57.59	
ATOM		PT+2								GGGG
						9.619	32.209	36.875	0.60 74.81	GGGG
ATOM		PT+2				-19.380	82.486	-2.990	0.50121.53	GGGG
ATOM	8671	PT+2	PT2	G	816	27.506	50.450	16.793	0.50143.70	GGGG
ATOM	8672	PT+2	PTO	G	719	-15.621	58.978	51.789	0.20105.99	GGGG
ATOM		CD+2								
	0073	ODTZ	CD2	9	721	-0.083	34.244	70.030	1.00 46.64	GGGG
ATOM	86/4	CD+2	CD2	G	722	2.151	37.249	68.882	1.00 71.11	GGGG
ATOM	8675	CD+2	CD2	G	723	-47.338	84.987	18.385	1.00 94.96	GGGG
ATOM	8676	CD+2	CD2	G	724	-36.776	97.081	52.307	1.00 76.81	
ATOM	8677	CD+2	CDS	ć	725	-38.037				GGGG
	0670	CDIC	CDC	9	7.00			58.689	1.00 94.24	GGGG
ATOM	00/8	CD+2	CDZ	G	126	-39.065	76.599	32.090	1.00100.85	GGGG
ATOM	8679	CD+2	CD2	G	727	-0.835	94.811	19.286	1.00 77.50	GGGG
ATOM	8680	CD+2	CD2	G	728	20.466	26.964	50.663	1.00103.98	GGGG
ATOM		CD+2				-26.440				
ATOM							93.826	25.631	1.00102.89	GGGG
		CD+2				0.891	36.397	73.624	1.00 54.05	GGGG
ATOM		CD+2				-7.554	65.551	34.652	1.00122.70	GGGG
MOTA	8684	CL-1	CL1	G	736	1.594	32.778	70.827	1.00 47.55	GGGG
ATOM	8685	CL-1	CL1	G	737	17.346	55.996	54.666	1.00100.60	
ATOM	8686	CL-1	CT 1	0	730					GGGG
						0.203	95.592	17.550	1.00 68.81	GGGG
ATOM	8687	CL-1	CL1	G	139	17.490	56.437	51.762	1.00 83.89	GGGG
END										

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# APPENDIX III

ATOM	1	C1 P1	900	17.247	34.337	33.040	0.00 50.00	PATB	0
ATOM	2	C2 P1	900	17.586	33.278	32.606	0.00 50.00	PATB	1
ATOM	3	C3 P1	900	14.612	33.590	32.345	0.00 46.36	PATB	2
ATOM	4	C4 P1	900	18.573	34.785	33.366	0.00 45.45	PATB	3
ATOM	5	C5 P1	900	32.438	29.934	19.147	0.00 45.45	PATB	4
ATOM	6	C6 P1	900	18.157	33.760	33.518	0.00 43.45	PATB	5
ATOM	7	C7 P1	900						
ATOM	8	-		17.122	32.075	31.575	0.00 44.55	PATB	6
			900	16.252	31.139	32.688	0.00 43.64	PATB	7
ATOM	9	C9 P1	900	16.249	34.011	32.951	0.00 41.82	PATB	8
ATOM	10	C10 P1	900	-10.094	34.241	58.839	0.00 40.91	PATB	9
ATOM	11	C11 P1	900	16.468	32.097	33.873	0.00 40.91	PATB	10
ATOM	12	C12 P1	900	15.489	32.195	32.392	0.00 40.91	PATB	11
ATOM	13	C13 P1	900	23.753	33.297	10.480	0.00 39.09	PATB	12
ATOM	14	C14 P1	900	33.309	30.398	18.052	0.00 39.09	PATB	13
ATOM	15	C15 P1	900	-2.998	21.831	64.821	0.00 37.27	PATB	14
MOTA	16	C16 P1	900	33.279	29.493	19.573	0.00 37.27	PATB	15
ATOM	17	C17 P1	900	14.731	31.540	33.645	0.00 36.36	PATB	16
MOTA	18	C18 P1	900	15.225	33.551	33.250	0.00 36.36	PATB	17
ATOM	19	C19 P1	900	-1.642	53.330	50.131	0.00 34.55	PATB	18
ATOM	20	C20 P1	900	13.430	32.330	33.472	0.00 34.55	PATB	19
ATOM	21	C21 P1	900	24.488	32.011	11.018	0.00 33.64	PATB	20
ATOM	22	C22 P1	900	-3.044	55.528	51.405	0.57 33.64	PATB	21
ATOM	23	C23 P1	900	22.926	33.277	9.745	0.00 32.73	PATB	22
ATOM	24	C24 P1	900	-2.583	52.917	50.555	0.00 32.73	PATB	23
ATOM	25	C25 P1	900	15.585	30.959	33.518	0.00 32.73	PATB	24
ATOM	26	C26 P1	900	9.955	54.402	54.165	0.00 32.73	PATB	25
ATOM	27	C27 P1	900	7.601	50.461	7.677	0.00 32.73	PATB	26
ATOM	28	C28 P1	900	6.373	33.507	46.876	0.00 32.73		
ATOM	29	C29 P1	900	34.629				PATB	27
ATOM	30	C30 P1			30.215	18.700	0.00 31.82	PATB	28
			900	1.456	32.977	69.898	0.00 31.82	PATB	29
MOTA	31	C31 P1	900	-1.332	50.347	15.988	0.00 30.91	PATB	30
ATOM	32	C32 P1	900	-10.702	33.287	58.969	0.00 30.91	PATB	31
ATOM	33	C33 P1	900	1.321	48.300	44.892	0.00 30.91	PATB	32
MOTA	34	C34 P1	900	18.824	26.334	17.574	0.00 30.91	PATB	33
ATOM	35	C35 P1	900	-2.057	21.217	62.848	0.00 30.91	PATB	34
MOTA	36	C36 P1	900	28.504	28.755	27.969	0.00 30.91	PATB	35
ATOM	37	C37 P1	900	-1.408	54.375	50.566	0.00 30.91	PATB	36
MOTA	38	C38 P1	900	0.435	49.041	17.446	0.00 30.91	PATB	37
MOTA	39	C39 P1	900	-3.133	55.380	50.016	0.50 30.91	PATB	38
MOTA	40	C40 P1	900	-0.728	21.929	61.350	0.00 30.91	PATB	39
ATOM	41	C41 P1	900	-2.775	54.272	50.848	0.50 30.00	PATB	40
ATOM	42	C42 P1	900	-7.106	59.427	30.313	0.00 30.00	PATB	41
ATOM	43	C43 P1	900	-1.784	53.383	48.515	0.00 30.00	PATB	42
ATOM	44	C44 P1	900	14.445	32.282	34.575	0.00 30.00	PATB	43
ATOM	45	C45 P1	900	-1.715	54.387	48.585	0.00 29.09	PATB	44
ATOM	46	C46 P1	900	-0.796	49.446	16.917	0.57 29.09	PATB	45
ATOM	47	C47 P1	900	-2.878	54.011	49.733	0.50 28.18	PATB	46
ATOM	48	C48 P1	900	4.700	33.242	29.042	0.00 28.18	PATB	47
ATOM	49	C49 P1	900	-1.507	21.465	61.968	0.00 28.18	PATB	48
ATOM	50	C50 P1	900	-2.632	53.930	48.357	0.00 28.18	PATB	49
ATOM	51	C51 P1	900	27.666	27.832	28.253	0.00 28.18	PATB	50
ATOM	52	C52 P1	900	-4.688	35.358	42.674	0.00 28.18	PATB	51
ATOM	53	C53 P1	900	16.884	53.968	53.834	0.00 27.27	PATB	
ATOM	54	C54 P1	900	-2.145	50.305	17.181	0.00 27.27	PATB	53
ATOM	55	C55 P1	900	-7.663	60.175	30.765	0.00 27.27	PATB	54
ATOM	56	C56 P1	900	-2.299	55.380	49.381	0.50 27.27	PATB	55
ATOM	57	C57 P1	900	28.828	29.735	28.544	0.00 27.27	PATE	56
ATOM	58	C58 P1	900	-3.421	53.458	51.786	0.00 27.27	PATB	57
ATOM	59	C59 P1	900						58
ATOM			900	-4.065 -11.182	55.649	51.025	0.57 26.36	PATB	
	60 61	C60 P1		-11.182	34.185	58.090	0.00 26.36	PATB	59 60
ATOM	61	C61 P1	900	14.412	56.379	17.377	0.00 26.36	PATB	60
ATOM	62 63	C62 P1	900	16.522	27.767	16.897	0.00 26.36	PATB	61
ATOM	63	C63 P1	900	-3.033	20.716	62.720	0.00 26.36	PATB	62
ATOM	64	C64 P1	900	-6.186	59.832	31.086	0.00 26.36	PATB	63
ATOM	65	C65 P1	900	34.275	29.502	17.720	0.00 26.36	PATB	64
ATOM	66	C66 P1	900	4.605	48.993	44.194	0.50 25.45	PATB	65
ATOM	67	C67 P1	900	13.342	31.893	60.930	0.00 25.45	PATB	66

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ATOM	68	C68 P1	900	-4.138	54.544	50.683	0.57 25.45	PATB 67
ATOM	69	C69 P1	900	-3.099	35.112	42.282	0.00 25.45	PATB 68
ATOM	70	C70 P1	900	-2.923	20.301	63.745	0.00 25.45	
ATOM	71	C71 P1	900	-2.352	57.350			PATB 69
ATOM	72	C72 P1				50.276	0.00 25.45	PATB 70
			900	-1.704	48.687	18.845	0.00 25.45	PATB 71
ATOM	73	C73 P1	900	-3.729	21.444	63.692	0.50 25.45	PATB 72
MOTA	74	C74 P1	900	18.025	26.136	18.607	0.00 25.45	PATB 73
MOTA	75	C75 P1	900	20.034	25.596	17.772	0.00 25.45	PATB 74
ATOM	76	C76 P1	900					
ATOM	77			4.929	32.281	29.839	0.00 24.55	PATB 75
			900	-3.973	54.714	52.063	0.50 24.55	PATB 76
ATOM	78	C78 P1	900	-4.494	55.479	49.703	0.00 24.55	PATB 77
ATOM	79	C79 P1	900	27.617	40.233	7.453	0.00 24.55	PATB 78
ATOM	80	C80 P1	900	7.252	31.840	48.687	0.00 23.64	PATB 79
ATOM	81	C81 P1	900	17.998	53.653	53.978		
ATOM	82	C82 P1					0.00 23.64	PATB 80
ATOM			900	8.829	48.216	9.226	0.00 23.64	PATB 81
	83	C83 P1	900	-3.433	54.847	48.757	0.00 23.64	PATB 82
ATOM	84	C84 P1	900	4.141	31.737	29.171	0.00 23.64	PATB 83
MOTA	85	C85 P1	900	7.717	33.701	47.514	0.00 23.64	PATB 84
ATOM	86	C86 P1	900	23.852	32.243	9.563	0.50 23.64	
ATOM	87	C87 P1	900	16.105	27.364			PATB 85
ATOM	88	C88 P1				18.186	0.00 23.64	PATB 86
ATOM			900	17.050	53.979	52.310	0.00 23.64	PATB 87
	89	C89 P1	900	8.186	32.440	49.215	0.00 22.73	PATB 88
ATOM	90	C90 P1	900	16.892	34.699	60.058	0.00 22.73	PATB 89
ATOM	91	C91 P1	900	2.293	50.463	45.378	0.00 22.73	PATB 90
ATOM	92	C92 P1	900	-2.944	54.775	53.010	0.00 22.73	
ATOM	93	C93 P1	900	15.575	32.992			PATB 91
ATOM	94	C94 P1				59.687	0.00 22.73	PATB 92
			900	-4.213	56.997	52.872	0.00 22.73	PATB 93
MOTA	95	C95 P1	900	23.205	54.707	27.214	0.00 22.73	PATB 94
ATOM	96	C96 P1	900	18.575	25.016	17.973	0.50 22.73	PATB 95
ATOM	97	C97 P1	900	27.243	27.969	29,443	0.00 22.73	PATB 96
ATOM	98	C98 P1	900	5.156	47.732	44.448	0.00 22.73	
ATOM	99	C99 P1	900	13.810				PATB 97
ATOM	100				31.950	59.888	0.00 21.82	PATB 98
			900	-6.509	48.140	25.924	0.00 21.82	PATB 99
ATOM	101	C2 P2	900	29.686	27.695	27.903	0.00 21.82	PATB 100
ATOM	102	C3 P2	900	23.607	50.347	53.121	0.00 21.82	PATB 101
ATOM	103	C4 P2	900	-3.642	56.678	49.898	0.00 21.82	PATB 102
MOTA	104	C5 P2	900	-3.287	19.784	65.001		
ATOM	105	C6 P2	900				0.00 21.82	PATB 103
ATOM	106			-4.895	60.363	43.735	0.00 21.82	PATB 104
		C7 P2	900	-3.655	53.730	53.006	0.00 21.82	PATB 105
ATOM	107	C8 P2	900	17.127	54.477	54.778	0.00 21.82	PATB 106
ATOM	108	C9 P2	900	3.274	48.637	44.447	0.00 21.82	PATB 107
ATOM	109	C10 P2	900	14.168	31.778	58.927	0.00 21.82	PATB 108
ATOM	110	C11 P2	900	0.963	48.500	20.822	0.00 21.82	
ATOM	111	C12 P2	900					PATB 109
ATOM				19.784	25.878	16.479	0.00 21.82	PATB 110
	112	C13 P2	900	-8.775	37.210	61.481	0.00 20.91	PATB 111
ATOM	113	C14 P2	900	-5.441	34.655	42.315	0.00 20.91	PATB 112
ATOM	114	C15 P2	900	1.342	45.346	23.267	0.00 20.91	PATB 113
ATOM	115	C16 P2	900	-6.609	61.088	30.635	0.50 20.91	PATB 114
ATOM	116	C17 P2	900	3.800				
ATOM					50.762	45.040	0.00 20.91	PATB 115
	117	C18 P2	900	1.822	48.632	44.076	0.00 20.91	PATB 116
ATOM	118	C19 P2	900	1.903	48.645	21.700	0.00 20.91	PATB 117
MOTA	119	C20 P2	900	-3.163	58.074	53.461	0.00 20.91	PATB 118
ATOM	120	C21 P2	900	10.166	55.351	53.298	0.00 20.91	PATB 119
ATOM	121	C22 P2	900	-2.079	48.948	17.521	0.50 20.91	
ATOM	122	C23 P2	900					PATB 120
ATOM				28.274	29.378	29.639	0.00 20.91	PATB 121
	123	C24 P2	900	-3.686	36.264	41.799	0.00 20.91	PATB 122
ATOM	124	C25 P2	900	-7.798	48.395	24.564	0.00 20.91	PATB 123
ATOM	125	C26 P2	900	19.227	47.896	63.105	0.00 20.91	PATB 124
ATOM	126	C27 P2	900	21.054	48.027	35.807	0.00 20.00	PATB 125
ATOM	127	C28 P2	900	-7.382	27.618	52.497	0.00 20.00	
ATOM	128	C29 P2	900			28.662		PATB 126
ATOM	129			3.441	33.713		0.00 20.00	PATB 127
		C30 P2	900	16.967	26.526	18.775	0.00 20.00	PATB 128
ATOM	130	C31 P2	900	16.574	54.702	53.042	0.00 20.00	PATB 129
MOTA	131	C32 P2	900	2.403	33.180	70.909	0.50 20.00	PATB 130
MOTA	132	C33 P2	900	-3.918	58.693	42.543	0.00 20.00	PATB 131
ATOM	133	C34 P2	900	-2.710	49.605	18.585	0.00 20.00	PATB 131
ATOM	134	C35 P2	900					
ATOM	135			-2.045	49.193	16.336	0.50 19.09	PATB 133
		C36 P2	900	2.133	31.320	28.492	0.00 19.09	PATB 134
MOTA	136	C37 P2	900	. 2.006	45.719	25.314	0.00 19.09	PATB 135
ATOM	137	C38 P2	900	-1.814	56.646	49.033	0.00 19.09	PATB 136
ATOM	138	C39 P2	900	3.685	48.460	26.732	0.00 19.09	PATB 137
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ATOM	139	C40 P	2 900	19.303	24.292	18.925	0.00.19.09	PATB 138
ATOM	140	C41 P	2 900	-5.731	26.335	53.685	0.00 19.09	PATB 139
ATOM	141	C42 P	2 900	20.332	49.688	35.178	0.00 19.09	PATB 140
ATOM	142	C43 P	2 900	5.940	48.879	44.600	0.00 19.09	PATB 141
ATOM	143	C44 P	2 900	6.810	32.304	47.442	0.50 19.09	PATB 142
ATOM	144	C45 P	2 900	0.572	48.417	18.600	0.00 19.09	PATB 143
ATOM	145	C46 P.	2 900	-5.647	61.204	43.844	0.00 19.09	PATB 144
ATOM	146	C47 P	2 900	-2.319	22.665	60.897	0.57 19.09	PATB 145
ATOM	147	C48 P	2 900	1.176	48.945	22.395	0.00 19.09	PATB 146
ATOM	148	C49 P		28.661	28.106	29.200	0.50 19.09	PATB 147
ATOM	149	C50 P	2 900	7.450	48.850	8.644	0.00 19.09	PATB 148
ATOM	150	C51 P	2 900	23.898	32.840	8.298	0.00 19.09	PATB 149
ATOM	151	C52 P	2 900	25.627	32.525	8.638	0.00 19.09	PATB 150
ATOM	152	C53 P.	2 900	-4.149	59.614	43.201	0.00 18.18	PATB 151
ATOM	153	C54 P	2 900	-4.273	20.223	64.109	0.57 18.18	PATB 152
ATOM	154	C55 P	2 900	5.426	46.495	27.453	0.00 18.18	PATB 153
ATOM	155	C56 P	2 900	-2.339	34.266	41.514	0.00 18.18	PATB 154
ATOM	156	C57 P.	2 900	-3.606	55.906	53.505	0.50 18.18	PATB 155
ATOM	157	C58 P	2 900	-3.229	57.100	54.130	0.00 18.18	PATB 156
ATOM	158	C59 P	2 900	-4.653	53.449	51.784	0.00 18.18	PATB 157
ATOM	159	C60 P	2 900	13.626	31.556	62.318	0.00 18.18	PATB 158
MOTA	160	C61 P	2 900	-10.189	47.601	46.487	0.50 18.18	PATB 159
ATOM	161	C62 P	2 900	27.621	39.645	5.890	0.00 18.18	PATB 160
ATOM	162	C63 P.	2 900	8.532	49.873	6.542	0.00 18.18	PATB 161
ATOM	163	C64 P	2 900	7.612	49.119	7.280	0.50 18.18	PATB 162
MOTA	164	C65 P	2 900	-12.434	33.931	58.743	0.00 18.18	PATB 163
ATOM	165	C66 P	2 900	-4.730	55.708	52.695	0.57 18.18	PATB 164
ATOM	166	C67 P		3.647	32.843	29.873	0.50 18.18	PATB 165
ATOM	167	C68 P		-0.672	48.355	17.960	0.50 18.18	PATB 166
ATOM	168	C69 P		-8.895	37.317	62.901	0.00 18.18	PATB 167
ATOM	169	C70 P		16.850	26.495	17.380	0.50 18.18	PATB 168
ATOM	170	C71 P		2.509	34.363	28.727	0.00 18.18	PATB 169
ATOM	171	C72 P		25.566	31.148	9.717	0.00 18.18	PATB 170
ATOM	172	C73 P		9.849	55.646	52.364	0.00 18.18	PATB 171
ATOM	173	C74 P		-9.118	47.794	45.606	0.00 18.18	PATB 172
ATOM	174	C75 P.		1.178	48.915	23.794	0.50 18.18	PATB 173
MOTA	175	C76 P		-11.301	48.637	43.154	0.00 17.27	PATB 174
ATOM	176 177	C77 P		-1.922 -5.260	35.564	40.847 30.294	0.00 17.27 0.00 17.27	PATB 175 PATB 176
ATOM ATOM	178	C78 P		-6.542	60.238 46.741	25.881	0.50 17.27	PATB 170
ATOM	179	C80 P		-2.859	21.813	61.868	0.50 17.27	PATB 178
ATOM	180	C81 P		9.089	56.567	54.425	0.00 17.27	PATB 179
ATOM	181	C82 P		-1.733	47.465	18.162	0.57 17.27	PATB 180
ATOM	182	C83 P		0.986	44.337	26.479	0.00 17.27	PATB 181
MOTA	183	C84 P		18.732	47.492	36.947	0.71 17.27	PATB 182
MOTA	184	C85 P		18.721	54.189	53.464	0.00 17.27	PATB 183
ATOM	185	C86 P		-3.271	48.308	18.505	0.00 17.27	PATB 184
ATOM	186	C87 P		15.087	27.293	17.806	0.00 17.27	PATB 185
ATOM	187	C88 P		2.107	31.931		0.00 17.27	PATB 186
MOTA	188	C89 P		-7.665	47.432	25.572	0.50 17.27	PATB 187
ATOM	189	C90 P	2 900	-4.206	35.026	41.402	0.50 17.27	PATB 188
ATOM	190	C91 P	2 900	23.042	31.399	8.795	0.57 17.27	PATB 189
MOTA	191	C92 P	2 900	-6.058	47.002	27.168	0.00 17.27	PATB 190
ATOM	192	C93 P	2 900	17.777	34.906	59.220	0.00 17.27	PATB 191
ATOM	193	C94 P	2 900	1.528	46.369	21.859	0.00 17.27	PATB 192
ATOM	194	C95 P	2 900	0.903	46.569	23.787	0.64 17.27	PATB 193
MOTA	195	C96 P	2 900	-11.761	48.965	40.994	0.00 17.27	PATB 194
ATOM	196	C97 P		0.295	47.788	19.819	0.50 17.27	PATB 195
MOTA	197	C98 P	2 900	8.777	32.830	47.792	0.50 16.36	PATB 196
MOTA	198	C99 P		18.260	45.613	36.164	0.00 16.36	PATB 197
MOTA	199	C1 P		3.349	52.213	45.361	0.00 16.36	PATB 198
MOTA	200	C2 P		-11.953	35.046	58.269	0.00 16.36	PATB 199
MOTA	201	C3 P		-4.134	21.499	62.353	0.57 16.36	PATE 200
MOTA	202	C4 P		2.969	32.402	28.793	0.50 16.36	PATB 201
ATOM	203	C5 P		-4.745	58.720	54.213	0.00 16.36	PATB 202
ATOM	204	C6 P		13.037	59.816	10.157	0.00 16.36	PATB 203
ATOM	205	C7 P		1.664	47.680	20.091	0.00 16.36	PATB 204
ATOM	206	C8 P		12.496	60.839	10.405	0.00 16.36	PATB 205
ATOM	207	C9 P		8.979	56.224	53.152	0.00 16.36	PATB 206 PATB 207
MOTA	208	C10 P			60.480	31.662	0.64 15.45	PATE 208
MOTA	209	C11 P	3 900	28.159	26.661	28.264	0.00 15.45	1A1B 200

ATOM	210	C12 P3	900	0.245	48.434	24.721	0.00 15.45	PATB 209
ATOM	211	C13 P3	900	24.834	32.954	7.745	0.00 15.45	PATB 210
ATOM	212	C14 P3	900	28.805	23.769	23.978	0.00 15.45	PATB 211
ATOM	213	C15 P3	900	-9.248	48.284	25.325	0.00 15.45	PATB 211
ATOM	214	C16 P3	900	-9.321	62.909	32.363	0.00 15.45	PATB 212
ATOM	215	C17 P3	900	-8.874	47.474	46.951	0.00 15.45	
ATOM	216	C18 P3	900	-4.610	57.327			PATB 214
ATOM	217	C19 P3	900			54.174	0.50 15.45	PATB 215
ATOM	218	C20 P3	900	17.823	25.589	16.941	0.57 15.45	PATB 216
ATOM	219	C21 P3		-3.404	33.879	41.356	0.00 15.45	PATE 217
ATOM	220		900	6.219	31.460	46.494	0.00 15.45	PATB 218
ATOM		C22 P3	900	19.486	49.529	36.283	0.50 15.45	PATB 219
	221	C23 P3	900	14.875	31.746	58.105	0.00 15.45	PATB 220
ATOM ATOM	222	C24 P3	900	29.819	28.775	28.785	0.57 15.45	PATB 221
	223	C25 P3	900	19.192	48.773	37.424	0.57 15.45	PATB 222
ATOM	224	C26 P3	900	22.184	54.812	28.117		PATB 223
ATOM	225	C27 P3	900	-8.257	28.082	52.891	0.00 15.45	PATB 224
MOTA	226	C28 P3	900	28.948	37.500	8.250	0.00 15.45	PATB 225
ATOM	227	C29 P3	900	-1.786	21.405	60.598	0.50 15.45	PATB 226
ATOM	228	C30 P3	900	27.976	23.428	23.475	0.00 15.45	PATB 227
ATOM	229	C31 P3	900	19.255	50.135	35.042	0.00 15.45	PATB 228
MOTA	230	C32 P3	900	23.035	51.165	52.796	0.00 15.45	PATB 229
ATOM	231	C33 P3	900	20.067	47.884	36.790	0.64 15.45	PATB 230
ATOM	232	C34 P3	900	12.552	44.396	45.666	0.00 15.45	PATB 231
ATOM	233	C35 P3	900	3.940	47.166	26.358	0.00 15.45	PATB 232
ATOM	234	C36 P3	900	13.407	57.664	17.107	0.71 14.55	PATB 233
ATOM	235	C37 P3	900	1.511	47.594	22.537	0.50 14.55	PATB 234
ATOM	236	C38 P3	900	28.869	39.423	8.185	0.00 14.55	PATB 235
ATOM	237	C39 P3	900	-0.608	47.060	17.434	0.64 14.55	PATB 236
ATOM	238	C40 P3	900	25.593	49.101	48.357	0.00 14.55	PATB 237
ATOM	239	C41 P3	900	2.567	49.813	44.169	0.50 14.55	PATB 238
ATOM	240	C42 P3	900	17.615	46.827	36.427	0.64 14.55	PATE 239
ATOM	241	C43 P3	900	0.854	45.415	24.577	0.50 14.55	PATB 240
ATOM	242	C44 P3	900	16.917	33.305	59.935	0.50 14.55	PATB 241
ATOM	243	C45 P3	900	-5.180	46.605	26.171	0.00 14.55	PATE 241
ATOM	244	C46 P3	900	-5.895	45.619	25.482	0.50 14.55	
ATOM	245	C47 P3	900	17.355	49.060	35.701	0.00 14.55	PATB 243
ATOM	246	C48 P3	900	13.644	43.538	46.343	0.00 14.55	PATB 244
ATOM	247	C49 P3	900	10.691	44.515	44.939	0.00 14.55	PATB 245
MOTA	248	C50 P3	900	19.094	49.151	62.864	0.00 14.55	PATB 246
MOTA	249	C51 P3	900	17.274	32.651	58.749	0.64 14.55	PATB 247
ATOM	250	C52 P3	900	20.815	24.600	18.353	0.00 14.55	PATB 248
ATOM	251	C53 P3	900	-11.814	48.980	42.190	0.00 14.55	PATB 249
ATOM -	252	C54 P3	900	2.903	31.306	29.661	0.57 14.55	PATB 250
ATOM	253	C55 P3	900	23.320	54.740	28.666	0.00 14.55	PATE 251
ATOM	254	C56 P3	900	8.369	57.110	53.936	0.00 14.55	PATB 252
ATOM	255	C57 P3	900	-9.880	46.646	47.463		PATB 253
ATOM	256	C58 P3	900	-0.043	47.164		0.57 13.64	PATB 254
ATOM	257	C59 P3	900	15.180		18.710	0.50 13.64	PATB 255
ATOM	258	C60 P3	900		31.663	59.887	0.50 13.64	PATB 256
ATOM	259	C61 P3	900	2.351 -3.677	33.321 54.505	29.649	0.57 13.64	PATB 257
ATOM	260	C62 P3	900	-7.299	46.376	54.172	0.50 13.64	PATB 258
ATOM	261	C63 P3	900	28.814	39.905	27.001	0.57 13.64	PATB 259
ATOM	262	C64 P3	900	1.070	45.729	6.575 26.355	0.50 13.64	PATB 260
ATOM	263	C65 P3	900	17.023			0.57 13.64	PATB 261
ATOM	264	C66 P3	900	1.127	25.303	18.094	0.57 13.64	PATB 262
ATOM	265	C67 P3	900		32.685	71.206	0.00 13.64	PATB 263
ATOM	266	C68 P3		8.978	43.401	44.514	0.00 13.64	PATB 264
ATOM			900	2.679	47.717	26.103	0.64 13.64	PATB 265
	267	C69 P3	900	-10.292	25.837	65.504	0.00 13.64	PATB 266
MOTA	268	C70 P3	900	8.531	31.519	48.219	0.57 13.64	PATB 267
MOTA	269	C71 P3	900	1.847	45.655	27.516	0.71 13.64	PATB 268
MOTA	270	C72 P3	900	18.585	46.343	37.314	0.71 13.64	PATB 269
ATOM	271	C73 P3	900	17.726	55.145	53.703	0.50 12.73	PATB 270
MOTA	272	C74 P3	900	16.586	46.422	35.570	0.00 12.73	PATB 271
ATOM	273	C75 P3	900	11.219	30.359	67.189	0.00 12.73	PATB 272
MOTA	274	C76 P3	900	-9.348	48.433	47.236	0.00 12.73	PATB 273
ATOM	275	C77 P3	900	-2.390	60.276	18.676	0.00 12.73	PATB 274
ATOM	276	C78 P3	900	9.559	44.686	44.933	0.00 12.73	PATB 275
MOTA	277	C79 P3	900	3.880	50.123	43.796	0.57 12.73	PATB 276
MOTA	278	C80 P3	900	2.715	51.393	44.420	0.50 12.73	PATB 277
ATOM	279	C81 P3	900	-6.868	62.449	30.836	0.00 12.73	PATB 278
ATOM	280	C82 P3	900	19.700	24.250	17.583	0.50 12.73	PATB 279

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ATOM	281	C83 P3	900	-3.200	48.487	16.693	0.00 12.73	PATB 280
ATOM	282	C84 P3	900	30.285	37.823	7.988	0.71 12.73	PATB 281
ATOM	283	C85 P3	900	14.045	57.353	18.314	0.50 12.73	PATB 282
ATOM	284	C86 P3	900	-2.967	47.373	17.508	0.50 12.73	PATB 283
MOTA	285	C87 P3	900	13.579	60.940	9.524	0.50 12.73	PATB 284
MOTA	286	C88 P3	900	-7.996	47.199	24.232	0.00 12.73	PATB 285
ATOM	287	C89 P3	900	24.351	30.969	9.045	0.50 12.73	PATB 286
ATOM	288	C90 P3	900	18.347	48.806	36.656	0.57 12.73	PATB 287
ATOM	289 2 <b>9</b> 0	C91 P3 C92 P3	900 900	15.130 9.592	57.578 47.770	17.459 8.033	0.71 12.73 0.00 12.73	PATB 288 PATB 289
ATOM ATOM	291	C92 F3	900	4.442	32.844	31.025	0.64 12.73	PATB 290
ATOM	292	C94 P3	900	28.641	23.847	25.159	0.00 12.73	PATB 291
ATOM	293	C95 P3	900	16.573	26.677	16.020	0.57 11.82	PATB 292
MOTA	294	C96 P3	900	19.021	47.242	38.294	0.79 11.82	PATB 293
ATOM	295	C97 P3	900	16.046	31.985	58.835	0.57 11.82	PATB 294
ATOM	296	C98 P3	900	14.822	28.144	15.548	0.00 11.82	PATB 295
ATOM	297	C99 P3	900	0.538	45.161	27.518	0.64 11.82	PATB 296
ATOM	298	C1 P4	900	1.508	47.052	26.486	0.71 11.82	PATB 297
MOTA	299	C2 P4	900	23.698	56.526	27.127	0.00 11.82	PATB 298
ATOM	300	C3 P4	900	-0.035	43.651	25.392	0.00 11.82	PATB 299
ATOM	301	C4 P4	900	0.074	44.257	24.477	0.00 11.82	PATB 300
ATOM	302 303	C5 P4 C6 P4	900 9 <b>0</b> 0	1.481 10.053	46.301 55.985	19.938 54.082	0.50 11.82 0.00 11.82	PATB 301 PATB 302
ATOM ATOM	303	C7 · P4	900	-0.449	46.376	19.793	0.00 11.82	PATE 303
ATOM	305	C8 P4	900	-1.941	47.839	16.678	0.57 11.82	PATB 304
ATOM	306	C9 P4	900	-8.701	38.455	61.844	0.00 11.82	PATB 305
ATOM	307	C10 P4	900	-6.067	26.121	55.372	0.00 11.82	PATB 306
ATOM	308	C11 P4	900	-0.022	45.560	23.496	0.57 11.82	PATB 307
ATOM	309	C12 P4	900	0.089	45.021	25.650	0.50 11.82	PATB 308
ATOM	310	C13 P4	900	8.193	47.828	8.041	0.50 11.82	PATB 309
MOTA	311	C14 P4	900	-9.546	25.324	64.385	0.00 11.82	PATB 310
ATOM	312	C15 P4	900	9.714	56.283	51.598	0.00 11.82	PATB 311
ATOM	313	C16 P4	900	24.048	51.102	51.663	0.00 11.82	PATB 312
ATOM	314	C17 P4	900	-4.324 16.536	61.641 31.974	43.704 59.727	0.50 11.82 0.57 10.91	PATB 313 PATB 314
ATOM ATOM	315 316	C18 P4 C19 P4	900 900	3.198	33.487	31.032	0.71 10.91	PATE 315
ATOM	317	C20 P4	900	16.823	32.797	61.236	0.00 10.91	PATB 316
ATOM	318	C21 P4	900	18.744	24.638	16.636	0.57 10.91	PATB 317
ATOM	319	C22 P4	900	26.789	22.745	24.133	0.00 10.91	PATB 318
MOTA	320	C23 P4	900	24.056	31.669	7.869	0.00 10.91	PATB 319
MOTA	321	C24 P4	900	7.888	52.736	26.231	0.00 10.91	PATB 320
MOTA	322	C25 P4	900	19.729	49.989	37.865	0.50 10.91	PATB 321
ATOM	323	C26 P4	900	17.363	24.315	17.959	0.57 10.91	PATB 322
ATOM	324	C27 P4	900	-2.717	55.415	54.631	0.00 10.91	PATB 323
ATOM	325	C28 P4	900	26.256	48.327	47.457	0.00 10.91	PATB 324 PATB 325
MOTA MOTA	326 327	C29 P4 C30 P4	900 900	1.551 17.830	44.459 44.432	28.181 36.440	0.00 10.91 0.00 10.91	PATE 325
ATOM	328	C31 P4	900	-8.682	46.474	25.658	0.64 10.91	PATB 327
ATOM	329	C32 P4	900	-5.043	21.107	63.343	0.64 10.91	PATB 328
ATOM	330	C33 P4	900	-7.478	46.161	25.016	0.57 10.91	PATB 329
ATOM	331	C34 P4	900	-5.561	54.698	51.413	0.00 10.91	PATB 330
ATOM	332	C35 P4	900	0.393	46.158	21.003	0.00 10.91	PATB 331
MOTA	333	C36 P4	900	13.191	57.258	19.420	0.00 10.91	PATB 332
MOTA	334	C37 P4	900	-2.620	48.291	15.433	0.57 10.91	PATB 333
MOTA	335	C38 P4	900	18.292	45.252	38.142	0.79 10.91	PATB 334 . PATB 335
MOTA	336	C39 P4	900	-4.804	55.237	53.781 33.314	0.57 10.91 0.00 10.91	PATE 335
ATOM ATOM	337 338	C40 P4 C41 P4	900 900	-10.576 -8.366	62.690 28.784	51.462	0.00 10.91	PATE 337
ATOM	339	C41 P4	900	20.558	49.157	37.103	0.00 10.00	PATB 338
ATOM	340	C42 P4	900	16.879	44.027	36.336	0.00 10.00	PATB 339
ATOM	341	C44 P4	900	10.106	53.318	26.692	0.00 10.00	PATB 340
ATOM	342	C45 P4	900	7.421	32.596	46.701	0.50 10.00	PATB 341
MOTA	343	C46 P4	900	4.971	51.657	26.782	0.00 10.00	PATB 342
ATOM	344	C47 P4	900	18.275	50.060	36.039	0.50 10.00	PATB 343
MOTA	345	C48 P4	900	14.355	30.518	61.340	0.00 10.00	PATB 344
ATOM	346	C49 P4	900	8.787	52.992	26.619	0.00 10.00	PATE 345
ATOM	347	C50 P4	900	18.159	23.421	18.685	0.00 10.00	PATB 346
ATOM	348	C51 P4	900	8.563	57.929	55.919	0.00 10.00	PATB 347 PATB 348
ATOM ATOM	349 350	C52 P4	900	-5.030	46.304	27.298	0.00 10.00 0.79 10.00	PATE 348 PATE 349
ATOM ATOM	351	C53 P4 C54 P4	900 900	2.804 9.627	29.946 29.422	29.979 67.940	0.00 10.00	PATE 350
ALOF	201	OO4 E4	500	5.021	22.446	01.540	2.00 20.00	

MOTA	352	C55 P4	900	-0.854	44.613	24.105	0.00	10.00	PATB 351
MOTA	353	C56 P4	900	2.649	32.254	30.659		10.00	PATB 352
MOTA	354	C57 P4	900	19.818	50.875	36.089	0.57	10.00	PATB 353
ATOM	355	C58 P4	900	13.833	60.761	10.815	0.50	10.00	PATB 354
ATOM	356	C59 P4	900	-6.930	26.377	52.962	0.57	10.00	PATB 355
ATOM	357	C60 P4	900	-9.640	47.365	25.161	0.00	10.00	PATB 356
ATOM	358	C61 P4	900	-6.121	45.696	26.667	0.50	10.00	PATB 357
ATOM	359	C62 P4	900	1.175	48.188	25.738		10.00	PATB 358
ATOM ATOM	360 361	C63 P4	900	22.936	55.992	28.173		10.00	PATB 359
ATOM	362	C64 P4 C65 P4	900	4.440	47.472	27.630	0.50	9.09	PATB 360
ATOM	363	C66 P4	900 900	-3.647 -8.484	52.299	57.862	0.00	9.09	PATB 361
ATOM	364	C67 P4	900	8.382	27.385 46.278	54.212	0.00	9.09	PATB 362
ATOM	365	C68 P4	900	29.259	38.443	9.084 7.264	0.00	9.09	PATB 363
ATOM	366	C69 P4	900	9.291	34.016	47.121	0.00	9.09 9.09	PATB 364 PATB 365
MOTA	367	C70 P4	900	16.351	32.236	56.967	0.00	9.09	PATB 366
ATOM	368	C71 P4	900	-3.781	60.963	43.135	0.50	9.09	PATB 367
ATOM	369	C72 P4	900	28.470	38.626	6.122	0.00	9.09	PATB 368
ATOM	370	C73 P4	900	14.322	29.820	60.362	0.00	9.09	PATB 369
ATOM	371	C74 P4	900	7.160	30.683	48.268	0.00	9.09	PATB 370
ATOM	372	C75 P4	900	-3.023	45.782	25.014	0.00	9.09	PATB 371
ATOM	373	C76 P4	900	6.851	48.018	7.691	0.57	9.09	PATB 372
ATOM	374	C77 P4	900	28.579	40.877	7.555	0.00	9.09	PATB 373
ATOM	375	C78 P4	900	7.672	48.983	5.888	0.57	9.09	PATB 374
ATOM	376	C79 P4	900	18.863	34.849	59.034	0.00	9.09	PATB 375
ATOM ATOM	377 378	C80 P4	900	7.291	53.383	25.754	0.00	9.09	PATB 376
ATOM	379	C81 P4 C82 P4	900 900	4.013	28.575	30.533	0.00	9.09	PATB 377
ATOM	380	C83 P4	900	16.464 16.307	25.276	16.811	0.64	9.09	PATB 378
ATOM	381	C84 P4	900	19.533	45.304 48.941	36.365	0.50	9.09	PATB 379
ATOM	382	C85 P4	900	17.760	32.263	38.772 60.342	0.00 0.64	9.09 9.09	·PATB 380
ATOM	383	C86 P4	900	1.656	30.670	29.637	0.71	9.09	PATB 381 PATB 382
ATOM	384	C87 P4	900	1.582	32.583	28.742	0.64	9.09	PATE 383
ATOM	385	C88 P4	900	3.904	31.643	30.548	0.57	9.09	PATB 384
ATOM	386	C89 P4	900	0.935	46.621	25.284	0.64	9.09	PATB 385
ATOM	387	C90 P4	900	-5.000	54.116	52.965	0.50	9.09	PATB 386
ATOM	388	C91 P4	900	1.404	47.698	24.447	0.71	9.09	PATB 387
ATOM	389	C92 P4	900	-10.319	64.015	32.372	0.00	8.18	PATB 388
ATOM	390	C93 P4	900	5.451	48.106	28.362	0.00	8.18	PATB 389
ATOM ATOM	391	C94 P4	900	0.575	34.590	28.232	0.00	8.18	PATB 390
ATOM	<b>3</b> 92 393	C95 P4 C96 P4	900	5.558	48.457	43.321	0.57	8.18	PATB 391
ATOM	394	C96 P4	900 900	2.946 <del>-</del> 3.455	28.015	29.634	0.00	8.18	PATB 392
ATOM	395	C98 P4	900	14.280	60.708 45.428	19.776	0.00	8.18	PATB 393
ATOM	396	C99 P4	900	-5.296	61.549	45.111 30.782	0.00 0.57	8.18 8.18	PATB 394
ATOM	397	C1 P5	900	28.350	40.723	5.374	0.50	8.18	PATB 395 PATB 396
ATOM	398	C2 P5	900	3.057	47.413	27.416	0.57	8.18	PATE 397
MOTA	399	C3 P5	900	0.746	46.545	27.546	0.79	8.18	PATE 398
ATOM	400	C4 P5	900	27.552	41.855	5.166	0.00	8.18	PATB 399
MOTA	401	C5 P5	900	-8.294	26.688	53.013	0.50	8.18	PATB 400
ATOM	402	C6 P5	900	24.551	50.878	49.945	0.00	8.18	PATB 401
ATOM	403	C7 P5	900	17.343	45.704	37.218	0.57	8.18	PATB 402
ATOM	404	C8 P5	900	-1.918	46.520	17.146	0.64	8.18	PATB 403
ATOM ATOM	405	C9 P5	900	29.330	26.893	28.994	0.57	8.18	PATB 404
ATOM	406 407	C10 P5 C11 P5	900	-0.606	45.833	24.746	0.57	8.18	PATB 405
ATOM	407	C11 P5	900 900	18.404	23.773	17.352	0.57	8.18	PATB 406
ATOM	409	C12 P5	900	5.125 19.994	49.850	43.217	0.64	8.18	PATB 407
ATOM	410	C14 P5	900	-7.801	35.257 26.163	59.568	0.00	8.18	PATB 408
ATOM	411	C15 P5	900	-12.635	48.443	54.214 42.641	0.64	8.18 8.18	PATB 409 PATB 410
ATOM	412	C16 P5	900	18.344	49.986	37.660	0.64	8.18	PATE 410
ATOM	413	C17 P5	900	19.171	50.771	36.846	0.57	8.18	PATB 411
ATOM	414	C18 P5	900	5.324	32.957	32.756	0.00	8.18	PATB 413
ATOM	415	C19 P5	900	9.311	45.555	44.396	0.00	8.18	PATE 414
ATOM	416	C20 P5	900	15.336	27.188	16.432	0.50	8.18	PATB 415
ATOM	417	C21 P5	900	1.730	32.067	29.606	0.64	8.18	PATB 416
ATOM	418	C22 P5	900	8.714	48.492	6.685	0.64	8.18	PATB 417
ATOM	419	C23 P5	900	24.152	51.567	53.537	0.50	8.18	PATB 418
ATOM	420	C24 P5	900	9.607	32.682	48.909	0.00	8.18	PATB 419
ATOM	421	C25 P5	900	9.218	57.937	54.682	0.50	7.27	PATB 420
MOTA	422	C26 P5	900	-3.276	52.798	56.959	0.00	7.27	PATB 421

ATOM	423	C27 P5	900	-12.051	47.560	41.228	0.00	7.27	PATB 422
ATOM	424	C28 P5	900	-7.244	45.530	25.847	0.57	7.27	PATB 423
ATOM	425	C29 P5	900	9.148	54.338	26.748	0.57	7.27	PATB 424
ATOM	426	C30 P5	900	18.157	33.564	59.339	0.71	7.27	PATB 425
ATOM	427	C31 P5	900	-3.272	35.195	40.895	0.50	7.27	PATB 426
ATOM	428	C32 P5	900	26.336	49.720	47.344	0.50	7.27	PATB 427
ATOM	429	C33 P5	900	1.920	28.961	29.524	0.93	7.27	PATB 428
							0.71	7.27	PATB 429
ATOM	430	C34 P5	900	-0.522	44.564	26.824			
ATOM	431	C35 P5	900	-0.951	44.704	25.499	0.50	7.27	PATB 430
ATOM	432	C36 P5	900	15.084	45.808	35.906	0.00	7.27	PATB 431
ATOM	433	C37 P5	900	0.772	31.442	28.798	0.71	7.27	PATB 432
ATOM	434	C38 P5	900	-8.917	24.549	64.634	0.00	7.27	PATB 433
	435	C39 P5	900	25.129	51.215	52.598	0.00	7.27	PATB 434
ATOM									
ATOM	436	C40 P5	900	-4.149	45.716	25.843	0.50	7.27	PATB 435
ATOM	437	C41 P5	900	9.651	57.413	53.461	0.50	7.27	PATB 436
ATOM	438	C42 P5	900	16.085	31.641	60.955	0.57	7.27	PATB 437
ATOM	439	C43 P5	900	14.915	30.910	63.010	0.00	7.27	PATB 438
ATOM	440	C44 P5	900	18.027	48.111	37.829	0.71	7.27	PATB 439
								7.27	
ATOM	441	C45 P5	900	-9.353	37.820	63.773	0.00		PATB 440
ATOM	442	C46 P5	900	10.611	54.259	26.352	0.00	6.36	PATB 441
ATOM	443	C47 P5	900	6.850	31.859	45.656	0.00	6.36	PATB 442
ATOM	444	C48 P5	900	5.093	52.902	25.995	0.00	6.36	PATB 443
ATOM	445	C49 P5	900	12.708	57.768	18.315	0.00	6.36	PATB 444
	446	C50 P5	900	1.881	31.086	30.592	0.71	6.36	PATB 445
ATOM							_		
ATOM	447	C51 P5	900	20.318	51.133	38.416	0.00	6.36	PATB 446
ATOM	448	C52 P5	900	29.446	28.793	30.134	0.64	6.36	PATB 447
MOTA	449	C53 P5	900	12.653	44.272	44.275	0.71	6.36	PATB 448
ATOM	450	C54 P5	900	10.311	55.830	25.141	0.00	6.36	PATB 449
ATOM	451	C55 P5	900	28.676	27.695	30.538	0.71	6.36	PATB 450
ATOM	452	C56 P5	900	14.603	43.035	46.282	0.00	6.36	PATB 451
									PATB 452
ATOM	453	C57 P5	900	-5.493	34.757	40.920	0.64	6.36	
MOTA	454	C58 P5	900	27.383	41.240	4.082	0.00	6.36	PATB 453
ATOM ·	455	C59 P5	900	15.875	31.848	62.323	0.00	6.36	PATB 454
ATOM	456	C60 P5	900	-11.430	26.001	64.868	0.00	6.36	PATB 455
ATOM	457	C61 P5	900	-2.472	46.278	18.226	0.64	6.36	PATB 456
		C62 P5	900	13.073	59.877	11.591	0.00	6.36	PATB 457
ATOM	458								
MOTA	459	C63 P5	900	7.817	47.846	6.692	0.64	6.36	PATB 458
ATOM	460	C64 P5	900	6.422	49.401	5.416	0.00	6.36	PATB 459
MOTA	461	C65 P5	900	-1.659	47.273	15.429	0.64	6.36	PATB 460
ATOM	462	C66 P5	900	-6.707	25.352	53.890	0.71	6.36	PATB 461
ATOM	463	C67 P5	900	7.492	31.165	46.996	0.57	6.36	PATB 462
						8.135	0.00	6.36	PATB 463
MOTA	464	C68 P5	900	25.272	30.437				PATE 464
MOTA	465	C69 'P5	900	20.216	48.861	63.648	0.50	6.36	
ATOM	466	C70 P5	900	2.805	50.766	43.172	0.64	6.36	PATB 465
ATOM	467	C71 P5	900	28.089	22.667	24.645	0.50	6.36	PATB 466
ATOM	468	C72 P5	900	17.877	43.374	37.034	0.00	6.36	PATB 467
MOTA	469	C73 P5	900	15.438	30.725	58.880	0.64	6.36	PATB 468
ATOM	470	C74 P5	900	5.416	52.854	27.356	0.64	5.45	PATB 469
						_			PATB 470
MOTA	471	C75 P5	900	-6.341		24.330	0.00		*
MOTA	472	C76 P5	900	2.803	30.905	30.999	0.71	5.45	PATB 471
MOTA	473	C77 P5	900	25.894	50.345	48.924	0.50	5.45	PATB 472
MOTA	474	C78 P5	900	-8.239	28.416	50.364	0.00	5.45	PATB 473
MOTA	475	C79 P5	900	-3.386	54.061	56.263	0.00	5.45	PATB 474
ATOM	476	C80 P5	900	-0.875	46.421	16.217	0.71	5.45	PATB 475
							0.00	5.45	PATB 476
MOTA	477	C81 P5	900	-5.968	54.897	52.324			
MOTA	478	C82 P5	900	16.964	50.249	35.585	0.00	5.45	PATB 477
ATOM	479	C83 P5	900	-3.519	45.106	26.934	0.71	5.45	PATB 478
ATOM	480	C84 P5	900	-10.006	25.309	63.210	0.00	5.45	PATB 479
ATOM	481	C85 P5	900	-0.005	32.489	27.589	0.00	5.45	PATB 480
			900		53.952	26.921	0.50	5.45	PATB 481
ATOM	482	C86 P5		7.814					PATB 482
MOTA	483	C87 P5	900	-2.137	45.276	25.973	0.64	5.45	
MOTA	484	C88 P5	900	8.594	33.333	46.499	0.00	5.45	PATB 483
ATOM	485	C89 P5	900	0.877	46.109	18.690	0.00	5.45	PATB 484
ATOM	486	C90 P5	900	-4.388	34.085	40.382	0.57	5.45	PATB 485
ATOM	487	C91 P5	900	-2.685	34.587	40.196	0.50	5.45	PATB 486
			900			48.610	0.00	5.45	PATB 487
MOTA	488	C92 P5		26.683	49.232				PATE 488
ATOM	489	C93 P5	900	-4.908	45.008	26.782	0.57	5.45	
ATOM	490	C94 P5	900	-4.824	44.926	24.904	0.00	5.45	PATB 489
ATOM	491	C95 P5	900	-4.245	32.918	41.142	0.00	4.55	PATB 490
ATOM	492	C96 P5	900	17.147	44.391	37.661	0.50	4.55	PATB 491
ATOM	493	C97 P5	900	1.438	32.957	30.647	0.71	4.55	PATB 492
111 011		55. 25		1.400	02.50	•			

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ATOM	494	C98 P5	900	19.831	24.276	16.189	0.57	4.55	DN III
ATOM	495	C99 P5	900	1.790	47.012	27.857	0.79		PATB 493
MOTA	496	C1 P6	900	17.781	24.982	15.680		4.55	PATB 494
ATOM	497	C2 P6	900				0.64	4.55	PATB 495
ATOM	498	C3 P6	900	15.547	26.867	15.086	0.79	4.55	PATB 496
ATOM	499	C4 P6	900	-6.146	45.917	28.049	0.57	4.55	PATB 497
ATOM	500	C5 P6		17.235	31.252	58.752	0.71	4.55	PATB 498
ATOM			900	-4.258	36.119	40.529	0.57	4.55	PATB 499
	501	C6 P6	900	17.684	46.399	38.384	0.79	4.55	PATB 500
MOTA	502	C7 P6	900	1.090	33.788	29.258	0.71	4.55	PATB 501
ATOM	503	C8 P6	900	4.061	33.330	32.281	0.79	4.55	PATB 502
ATOM	504	C9 P6	900	-4.891	51.837	57.415	0.50	4.55	PATB 503
ATOM	505	C10 P6	900	-9.949	38.023	62.309	0.50	4.55	PATB 504
ATOM	506	C11 P6	900	28.961	22.438	23.574	0.57	4.55	PATB 505
ATOM	507	C12 P6	900	20.396	47.479	63.508	0.00	4.55	PATB 506
ATOM	508	C13 P6	900	-10.795	64.666	33.517	0.57	4.55	PATB 507
ATOM	509	C14 P6	900	5.877	55.552	26.272	0.00	4.55	PATB 508
ATOM	510	C15 P6	900	2.599	32.014	71.658	0.57	4.55	PATE 509
ATOM	511	C16 P6	900	11.434	30.787	68.307	0.00	4.55	
ATOM	512	C17 P6	900	-5.751	62.478	29.838	0.00	4.55	PATB 510
ATOM	513	C18 P6	900	5.508	47.523	8.392	0.00		PATB 511
ATOM	514	C19 P6	900	4.340	48.830			4.55	PATB 512
ATOM	515	C20 P6	900	-9.684		27.912	0.50	4.55	PATB 513
ATOM	516	C21 P6	900		28.127	52.928	0.00	4.55	PATB 514
ATOM	517	C22 P6	900	-2.470	33.368	40.448	0.50	4.55	PATB 515
ATOM	518	C23 P6		-3.801	46.684	18.397	0.00	4.55	PATB 516
ATOM	519		900	3.483	32.158	31.780	0.71	3.64	PATB 517
ATOM		C24 P6	900	15.326	58.725	18.590	0.00	3.64	PATB 518
ATOM	520	C25 P6	900	-5.667	53.164	51.523	0.00	3.64	PATB 519
	521	C26 P6	900	29.828	39.046	6.135	0.57	3.64	PATB 520
ATOM	522	C27 P6	900	16.918	30.744	60.276	0.64	3.64	PATB 521
ATOM	523	C28 P6	900	20.019	34.492	58.607	0.00	3.64	PATB 522
ATOM	524	C29 P6	900	27.932	42.525	3.997	0.50	3.64	PATB 523
ATOM	525	C30 P6	900	7.700	54.722	25.757	0.64	3.64	PATB 524
ATOM	526	C31 P6	900	-9.998	63.527	33.679	0.00	3.64	PATB 525
ATOM	527	C32 P6	900	30.918	28.781	29.652	0.71	3.64	PATB 526
ATOM	528	C33 P6	900	13.862	44.869	43.897	0.64	3.64	PATB 527
ATOM	529	C34 P6	900	-3.970	48.010	15.675	0.00	3.64	PATB 528
ATOM	530	C35 P6	900	-10.921	25.607	62.886	0.00	3.64	PATB 529
ATOM	531	C36 P6	900	14.227	58.612	17.730	0.64	3.64	
ATOM	532	C37 P6	900	-11.346	24.967	65.808	0.57	3.64	PATB 530
ATOM	533	C38 P6	900	9.270	44.411	43.591	0.50		PATB 531
ATOM	534	C39 P6	900	19.416	45.721	38.832	0.00	3.64	PATB 532
ATOM	535	C40 P6	900	30.310	37.812	6.588		3.64	PATB 533
ATOM	536	C41 P6	900	9.911	55.469	26.433	0.64	3.64	PATB 534
ATOM	537	C42 P6	900	3.999	51.516		0.64	3.64	PATB 535
ATOM	538	C43 P6	900	25.269	50.830	43.877	0.64	3.64	PATB 536
ATOM	539	C44 P6	900	15.877		47.770	0.00	3.64	PATB 537
ATOM	540	C45 P6	900		46.575	36.767	0.57	3.64	PATB 538
ATOM	541	C46 P6	900	-8.129	27.410	51.332	0.50	3.64	PATB 539
ATOM	542	C40 P6		17.154	23.167	18.732	0.00	3.64	PATB 540
ATOM	543	C47 P6	900	1.603	29.715	30.660	0.86		PATB 541
ATOM			900	-1.451	43.428	25.783	0.00	3.64	PATB 542
ATOM	544	C49 P6	900	-9.538	27.543	53.879	0.00	3.64	PATB 543
	545	C50 P6	900	28.895	39.684	5.309	0.50	3.64	PATB 544
ATOM	546	C51 P6	900	13.671	58.508	19.011	0.57	3.64	PATB 545
ATOM	547	C52 P6	900	7.366	57.885	53.982	0.00	3.64	PATB 546
ATOM	548	C53 P6	900	19.958	47.779	64.498	0.00	3.64	PATB 547
ATOM	549	C54 P6	900	1.201	45.747	28.603	0.71	3.64	PATB 548
ATOM	550	C55 P6	900	-2.879	47.252	16.116	0.57	2.73	PATB 549
ATOM	551	C56 P6	900	-8.487	63.710	32.963	0.00	2.73	PATB 550
ATOM	552	C57 P6	900	10.995	29.459	68.238	0.50	2.73	PATB 551
ATOM	553	C58 P6	900	0.600	31.480	30.187	0.79	2.73	PATB 551
ATOM	554	C59 P6	900	19.136	25.222	15.425	0.50	2.73	PATB 553
ATOM	555	C60 P6	900	-1.676	45.586	24.688	0.57	2.73	PATE 554
ATOM	556	C61 P6	900	18.962	51.498	35.173	0.50	2.73	
ATOM	557	C62 P6	900	-1.183	61.695	19.644			PATB 555
ATOM	558	C63 P6	900	5.200	54.088		0.00	2.73	PATB 556
ATOM	559	C64 P6	900	30.541	27.597	26.731	0.71	2.73	PATB 557
ATOM	560	C65 P6	900			29.008	0.64	2.73	PATB 558
ATOM	561	C66 P6	900	-10. <b>1</b> 39	24.459	65.312	0.50	2.73	PATB 559
ATOM	562	C67 P6		17.385	24.313	16.559	0.64	2.73	PATB 560
ATOM	563	C67 P6	900	8.338	30.257	47.644	0.64	2.73	PATB 561
ATOM	564		900	-4.943	45.210	28.167	0.64	2.73	PATB 562
LT ON	504	C69 P6	900	0.369	33.280	28.682	0.71	2.73	PATB 563

ATOM	565	C70	Р6	900	2.648	28.794	30.759	0.86	2.73	PATE	3 564
MOTA	566	C71		900	13.791	44.117	45.076	0.50	2.73	PATE	
ATOM	567	C72		900	16.865	47.177	37.556	0.71	2.73	PATE	3 566
ATOM	568	C73		900	20.043	52.030	34.459	0.00	2.73		3 567
ATOM ATOM	569 570	C74 C75		900 900	-9.433 -2.999	64.715 59.803	33.199	0.50	2.73 2.73		568
ATOM	571	C76		900	6.504	48.396	43.058 6.388	0.00 0.64	2.73	PATE	3 569 3 570
ATOM	572	C77		900	27.777	22.043	23.432	0.57	2.73		3 571
MOTA	573	C78	Р6	900	-7.738	26.165	51.839	0.79	2.73		3 572
ATOM	574	C79		900	-4.058	44.321	25.908	0.64	2.73		573
ATOM	575	C80		900	17.842	50.980	37.233	0.64	2.73	PATE	3 574
ATOM	576	C81		900	17.029	48.398	36.891	0.64	1.82		575
ATOM ATOM	577 578	C82 C83		900 900	0.891	27.441	28.946	0.00	1.82		576
ATOM	579		P6	900	-2.213 4.227	61.665 49.096	18.697 42.453	0.50	1.82 1.82	PATE	3 577 3 578
ATOM	580	C85		900	29.880	27.861	29.844	0.64	1.82		3 579
ATOM	581	C86		900	8.557	57.433	52.587	0.57	1.82		580
ATOM	582	C87	P6	900	-9.553	39.235	62.887	0.00	1.82		581
ATOM	583	C88		900	5.906	48.911	28.973	0.00	1.82	PATE	582
ATOM	584	C89		900	19.492	33.789	59.697	0.79	1.82		583
ATOM ATOM	585 586	C90 C91		900 900	15.445	25.848	16.041	0.71	1.82		584
ATOM	587	C92		900	6.758 19.939	53.036 52.247	27.001 35.839	0.57 0.64	1.82 1.82		3 585 3 586
ATOM	588	C93		900	-9.015	27.596	51.820	0.50	1.82		587
ATOM	589	C94	P6	900	4.940	50.092	27.823	0.00	1.82		588
ATOM	590	C95	P6	900	21.007	23.543	16.391	0.71	1.82		589
ATOM	591		P6	900	4.195	47.893	28.943	0.57	1.82	PATE	590
ATOM	592	C97		900	-1.373	34.130	40.029	0.00	1.82		591
ATOM	593		P6	900	-1.879	44.221	26.855	0.79	1.82		592
ATOM ATOM	594 595		P6 P7	900 900	8.517 18.937	55.566 51.097	26.518	0.71	1.82		593
ATOM	596		P7	900	1.403	32.061	38.188 72.384	0.64 0.00	1.82 1.82		594 595
ATOM	597		P7	900	24.891	51.557	48.355	0.00	1.82		596
ATOM	598	C4	P7	900	16.476	25.417	15.418	0.71	1.82		597
ATOM	599		₽7	900	8.066	58.711	54.869	0.57	1.82	PATE	598
ATOM	600		P7	900	14.363	44.789	36.685	0.00	1.82		599
ATOM	601 602		P7	900	-7.220	25.348	55.192	0.79	1.82		600
ATOM ATOM	603		P7 P7	900 900	-4.120 3.197	47.128 52.652	16.752 44.040	0.64 0.71	1.82 1.82	PATB	601
ATOM	604	C10		900	-8.379	45.550	26.666	0.71	1.82		603
ATOM	605	C11		900	27.226	48.908	46.631	0.57	1.82		604
ATOM	606	C12	P7	900	4.220	32.122	32.969	0.86	1.82		605
ATOM	607	C13		-900	18.273	52.114	34.121	0.00	0.91	PATB	
ATOM	608	C14		900	15.371	29.473	59.503	0.71	0.91		607
ATOM ATOM	609 610	C15 C16		900 900	-6.787 9.569	25.206 30.580	52.208 48.227	0.86 0.71	0.91 0.91	PATB PATB	
ATOM	611		P7	900	16.198	31.096	57.765	0.71	0.91		610
ATOM	612	C18		900	25.674	51.595	49.514	0.57	0.91	PATB	
ATOM	613	C19		900	15.801	44.759	37.551	0.86	0.91	PATB	
ATOM	614	C20	P7	900	1.658	27.706	30.087	1.00	0.91	PATB	613
ATOM	615	C21		900	19.756	51.916	37.400	0.71	0.91	PATB	
ATOM ATOM	616 617	C22 C23		900 900	20.200	26.001	14.955	0.00	0.91	PATB	
ATOM	618	C24		900	0.901 -4.925	44.457 35.194	29.056 39.717	0.00 0.71	0.91 0.91	PATB PATB	
ATOM	619	C25		900 .	9.809	31.884	47.777	0.64	0.91	PATE	
ATOM	620	C26		900	-0.133	45.343	28.733	0.79	0.91	PATB	
ATOM	621	C27		900	-3.967	53.934	57.794	0.00	0.91	PATB	620
ATOM	622	C28		900	27.831	48.869	47.893	0.00	0.91	PATB	
ATOM	623	C29		900	-7.091	45.069	27.459	0.64	0.91	PATB	
ATOM ATOM	624 625	C30 C31		900	-5.657 -4.072	36.086	40.510	0.79	0.91	PATB	
ATOM	626	C32		900 900	-4.072 -6.002	52.643 44.397	59.014 26.158	0.00 0.64	0.91 0.91	PATB PATB	
ATOM	627	C33		900	6.090	54.019	27.742	0.71	0.91	PATB	
ATOM	628	C34		900	17.194	49.788	36.886	0.57	0.91	PATB	
ATOM	629	C35	<b>P</b> 7	900	-0.925	61.934	18.218	0.00	0.91	PATB	
ATOM	630	C36		900	10.771	30.742	69.074	0.00	0.91	PATB	
ATOM	631	C37		900	19.785	23.051	16.865	0.64	0.91	PATB	
ATOM ATOM	632 633	C38		900 900	29.209 7.452	41.231	6.356	0.57	0.91	PATB PATB	
ATOM	634	C40		900	-9.180	46.767 26.194	7.506 53.977	0.71 0.57	0.91 0.00	PATB	
ATOM	635	C41		900	13.758	42.723	45.210	0.57	0.00	PATB	
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ATOM	636	C42 P7	900	20.890	23.124	17.721	0.00	0.00	PATB	635
ATOM	637	C43 P7	900	28.415	40.172	4.088	0.00	0.00	PATE	
ATOM	638	C44 P7	900	20.474	24.930	15.131	0.00	0.00		
ATOM	639	C45 P7	900	16.226	46.014	38.002	0.79		PATB	
ATOM	640	C46 P7	900	-10.868	24.889	_		0.00	PATB	
ATOM	641	C47 P7	900			64.230	0.50	0.00	PATB	639
				15.036	44.414	44.510	0.57	0.00	PATB	640
ATOM	642	C48 P7	900	18.148	49.147	38.763	0.79	0.00	PATB	641
ATOM	643	C49 P7	900	-4.316	48.180	14.689	0.00	0.00	PATB	
ATOM	644	C50 P7	900	24.945	52.037	50.625	0.64	0.00		
ATOM	645	C51 P7	900	0.624	47.900	28.493	0.00	-		
ATOM	646	C52 P7	900	6.550				0.00	PATB	
ATOM	647	C53 P7			54.339	26.459	0.57	0.00	PATB	645
			900	-7.877	25.353	53.075	0.71	0.00	PATB	646
ATOM	648	C54 P7	900	17.766	51.356	35.887	0.57	0.00	PATB	647
ATOM	649	C55 P7	900	15.648	30.541	61.876	0.50	0.00	PATB	648
ATOM	650	C56 P7	900	15.564	30.455	60.481	0.57	0.00		
ATOM	651	C57 P7	900	0.701	29.647	29.591			PATB	649
ATOM	652	C58 P7	900				1.00	0.00	PATB	650
ATOM	653			26.098	51.282	50.874	0.00	0.00	PATB	651
AT OM	653	C59 P7	900	-2.519	61.708	20.063	0.57	0.00	PATB	652

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ATOM	1	C1 P1	900	-20.175 98	3.008	52.430	0.00 50	0.00	PATB	0
ATOM	2	C2 P1	900		9.115	52.633	0.00 45		PATB	1
ATOM	3	C3 P1	900							
					3.645	52.128	0.00 45		PATB	2
ATOM	4	C4 P1	900	-26.846 108		45.266	0.00 4		PATB	3
ATOM	5	C5 P1	900	-19.348 98	3.369	53.501	0.50 43	1.23	PATB	4
ATOM	6	C6 P1	900	-21.146 97	7.691	53.553	0.00 43	1.23	PATB	5
ATOM	7	C7 P1	900		7.128	52.790	0.00 43		PATB	6
ATOM	8	C8 P1	900	-26.049 108		44.950	0.00 40		PATB	7
ATOM	9	C9 P1	900	-19.429 100	0.284	53.163	0.00 38	3.60	PATB	8
ATOM	10	C10 P1	900	-25.940 108	3.546	46.102	0.00 3	7.72	PATB	9
ATOM	11	C11 P1	900	-26.582 109		45.225	0.00 3		PATB	10
ATOM	12	C12 P1	900		9.607	52.549	0.00 3			11
									PATB	
ATOM	13	C13 P1	900		3.907	42.203	0.00 3	4.21	PATB	12
ATOM	14	C14 P1	900	-27.919 102	2.737	3.634	0.00 34	4.21	PATB	13
ATOM	15	C15 P1	900	-26.633 110	0.057	46.309	0.00 34	4.21	PATB	14
ATOM	16	C16 P1	900		3.441	44.310	0.00 33		PATB	15
ATOM	17	C17 P1	900		3.072	43.283	0.00 3		PATB	16
ATOM	18	C18 P1	900		3.067	32.996	0.00 32	2.46	PATB	17
ATOM	19	C19 P1	900	-17.819 98	3.655	52.667	0.00 32	2.46	PATB	18
ATOM	20	C20 P1	900	-23.184 75	5.571	45.603	0.00 33	1.58	PATB	19
ATOM	21	C21 P1	900		L.880	-4.378	0.00 3		PATB	20
ATOM	22	C22 P1	900		5.131	44.249	0.00 33		PATB	21
MOTA	23	C23 P1	900	-25.127 110	0.525	43.198	0.00 3	1.58	PATB	22
ATOM	24	C24 P1	900	-22.795 76	5.713	44.892	0.50 30	0.70	PATB	23
ATOM	25	C25 P1	900		5.849	43.954	0.00 30		PATB	24
ATOM	26	C26 P1								
			900	-18.732 100		54.220	0.00 30		PATB	25
ATOM	27	C27 P1	900		2.279	17.328	0.00 29		PATB	26
MOTA	28	C28 P1	900	-23.635 77	7.820	45.065	0.00 29	9.82	PATB	27
ATOM	29	C29 P1	900	-21.477 76	5.288	44.690	0.00 28	3.95	PATB	28
ATOM	30	C30 P1	900	-21.046 101	278	-8.385	0.00 28		PATB	29
ATOM	31	C31 P1	900		5.180		0.00 28		PATB	30
						37.321				
MOTA	32	C32 P1	900	-25.515 111		46.197	0.00 28		PATB	31
ATOM	33	C33 P1	900	-21.102 75	5.494	43.698	0.00 28	3.07	PATB	32
ATOM	34	C34 P1	900	-22.594 77	7.121	42.718	0.50 28	3.07	PATB	33
ATOM	35	C35 P1	900		7.717	41.499	0.00 28		PATB	34
ATOM		C36 P1	900				0.00 28		PATE	35
	36				5.528	44.522				
ATOM	37	C37 P1	900	-6.310 74	1.810	9.368	0.00 28		PATB	36
ATOM	38	C38 P1	900	-18.425 98	3.920	53.901	0.50 28	3.07	PATB	37
ATOM	39	C39 P1	900	-25.993 111	L.739	43.059	0.00 28	3.07	PATB	38
ATOM	40	C40 P1	900		5.124	45.273	0.00 28		PATB	39
ATOM	41	C41 P1	900		5.272	43.540	0.50 28		PATB	40
ATOM	42	C42 P1	900	-34.023 101		54.157	0.00 28	3.07	PATB	41
ATOM	43	C43 P1	900	-28.695 101	L.796	3.721	0.00 28	3.07	PATB	42
ATOM	44	C44 P1	900	-21.410 82	2.870	35.628	0.00 27	7.19	PATB	43
ATOM	45	C45 P1	900		0.236	17.414	0.00 27		PATB	44
							0.50 27		PATB	
ATOM	46		900		7.879	45.798				45
ATOM	47	C47 P1	900		3.463	41.450	0.00 26		PATB	46
ATOM	48	C48 P1	900	-5.550 73	3.517	10.301	0.00 26	5.32	PATB	47
ATOM	49	C49 P1	900	-1.471 83	3.435	19.835	0.00 26	5.32	PATB	48
ATOM	50	C50 P1	900	-28.854 103	3.512	4.330	0.50 26	5.32	PATE	49
ATOM	51	C51 P1	900		5.609	46.079	0.00 26		PATB	50
ATOM	52	C52 P1	900		2.357	19.401	0.50 26		PATB	51
MOTA	53	C53 P1	900	0.702 81	L.075	19.356	0.00 25	5.44	PATB	52
MOTA	54	C54 P1	900	-8.557 75	5.112	10.266	0.00 25	5.44	PATB	53
ATOM	55	C55 P1	900	-27.847 104		5.067	0.00 25	5.44	PATB	54
ATOM	56	C56 P1	900	-25.218 111		45.293	0.00 25		PATB	55
MOTA	57	C57 P1	900		1.572	43.475	0.00 25		PATB	56
ATOM	58	C58 P1	900		5.451	35.365	0.00 25	5.44	PATB	57
ATOM	59	C59 P1	900	-14.178 105	5.617	3.369	0.00 25	5.44	PATB	58
ATOM	60	C60 P1	900			-10.115	0.00 25		PATB	59
							0.00 25		PATB	60
MOTA	61	C61 P1	900		5.734	41.670				
ATOM	62	C62 P1	900		3.995	44.833	0.00 24		PATB	61
ATOM	63	C63 P1	900	-12.341 104	1.493	5.752	0.00 24	1.56	PATB	62
ATOM	64	C64 P1	900	-25.334 98	3.132	32.657	0.00 24	1.56	PATB	63
ATOM	65	C65 P1	900		0.803	36.265	0.00 24		PATB	64
	66	C66 P1	900		3.428		0.00 23		PATB	65
MOTA						44.807				
MOTA	67	C67 P1	900	0.306 81	1.328	20.336	0.00 23	5.00	PATB	66

ATOM 68 C68 P1 900 -17.270 99.513 53.377 0.00 23.68 PATB ATOM 69 C69 P1 900 1.244 81.303 18.086 0.50 23.68 PATE 68 **ATOM** 70 C70 P1 900 -12.463 75.404 8.926 0.00 23.68 PATB 69 ATOM 71 C71 P1 900 -7.293 75.517 10.333 0.00 23.68 PATB 70 АТОМ 72 C72 P1 900 -22.039 82.384 34.485 0.00 23.68 PATB 71 ATOM 73 C73 P1 900 -13.293 105.346 5.417 0.00 23.68 PATE 72 ATOM 74 C74 P1 900 -25.687 99.972 0.00 23.68 33.502 PATB 73 ATOM 75 C75 P1 900 -23.297 76.890 46.056 0.50 23.68 PATE 74 ATOM 76 C76 P1 900 -23.649 99.654 32.854 0.00 22.81 PATE 75 **ATOM** 77 C77 P1 900 -18.532 97.347 54.001 0.00 22.81 PATB 76 ATOM 78 C78 P1 900 -12.423 85.774 44.579 0.00 22.81 PATE 77 ATOM C79 P1 79 900 -18.988 101.670 -7.317 0.00 22.81 PATB 78 ATOM 80 C80 P1 900 -11.736 104.151 4.577 0.00 22.81 PATB 79 ATOM 81 C81 P1 900 -0.011 83.413 20.628 0.00 22.81 PATB 80 ATOM 82 C82 P1 900 -8.300 74.283 9.167 0.50 22.81 PATE 81 ATOM 83 C83 P1 900 -5.430 72.323 3.514 0.00 21.93 PATB 82 ATOM 84 C84 P1 900 -22.543 75.898 41.032 0.00 21.93 PATB 83 ATOM 85 C85 P1 900 -7.289 79.938 42.189 0.00 21.93 PATE 84 ATOM C86 P1 86 900 -33.227 78.214 37.830 0.00 21.93 PATB 85 ATOM 87 C87 P1 900 -28.789 103.924 2.993 0.00 21.93 PATB 86 ATOM 88 C88 P1 900 -12.507 98.990 -5.6750.00 21.93 PATB 87 MOTA 89 C89 P1 900 -11.600 99.343 21.608 0.00 21.93 PATB 88 ATOM 90 C90 P1 900 -38.131 101.689 38.238 0.00 21.93 PATB 89 ATOM 91 C91 P1 900 -22.873 80.456 35.546 0.00 21.93 PATR 90 ATOM 92 C92 P1 900 1.362 83.804 19.391 0.50 21.05 PATB 91 ATOM 93 C93 P1 900 1.371 82.564 20.040 0.00 21.05 PATB 92 MOTA 94 C94 P1 900 -22.230 101.302 -8.306 0.00 21.05 PATB 93 ATOM 95 C95 P1 900 -21.332 81.872 35.646 0.00 21.05 PATB 94 ATOM 96 C96 P1 900 -13.015 94.546 0.00 20.18 36.418 PATB 95 ATOM 97 C97 P1 900 -0.600 83.346 18.744 0.58 20.18 PATB 96 ATOM 98 C98 P1 900 -39.276 100.598 36.650 0.00 20.18 PATB 97 ATOM 99 C99 P1 900 -40.738 98.891 34.871 0.00 20.18 PATE 98 АТОМ 1.00 C1 P2 900 -20.222 102.400 -8.2390.58 20.18 PATB 99 ATOM 101 C2 P2 900 -25.282 90.971 -4.510 0.00 20.18 PATB 100 ATOM 102 C3 -29.025 102.897 P2 900 5.804 0.00 20.18 PATB 101 ATOM 103 C4 P2 900 -13.576 84.196 46.199 0.00 20.18 **PATB 102** MOTA 104 C5 P2 900 -14.414 94.975 34.019 0.00 20.18 **PATB 103** ATOM 105 C6 P2 900 -6.019 81.202 20.754 0.00 20.18 PATB 104 ATOM 106 C7 P2 900 -26.059 92.605 -5.257 0.00 19.30 **PATB 105** ATOM 107 C8 P2 900 -7.42481.592 0.00 19.30 43,311 PATB 106 ATOM 108 C9 P2 900 -12.278 75.486 10.276 0.00 19.30 **PATB 107** MOTA 109 C10 P2 900 -28.253 104.013 6.166 0.00 19.30 **PATB 108** ATOM 110 C11 P2 -12.750 85.269 900 45.844 0.50 19.30 **PATB 109** ATOM 111 C12 P2 900 -34.915 100.972 54.544 0.50 19.30 **PATB 110** ATOM 112 C13 P2 900 1.243 82.185 18.698 0.50 19.30 PATB 111 ATOM 113 C14 P2 900 -25.222 77.236 46.667 0.00 19.30 PATB 112 ATOM 114 C15 P2 900 -29.563 102.478 4.582 0.50 19.30 PATB 113 ATOM 115 C16 P2 900 -24.25176.245 46.852 0.58 19.30 PATB 114 MOTA 116 C17 P2 900 -40.41799.421 36.643 0.00 19.30 **PATB 115** MOTA 117 C18 P2 900 -22.239 75.125 0.00 19.30 41.870 **PATB 116** ATOM 118 C19 P2 -4.844 900 68,641 34.302 0.00 19.30 **PATB 117** MOTA 119 C20 P2 900 -11.809 82.835 46.132 0.00 18.42 PATB 118 ATOM 120 C21 P2 900 -0.433 84.363 19.691 0.50 18.42 **PATB 119** ATOM 121 C22 P2 900 0.182 82.877 18.102 0.58 18.42 **PATB 120** АТОМ 122 C23 P2 900 -7.460 74.202 9.884 0.50 18.42 PATB 121 ATOM 123 C24 P2 900 -26.760 94.364 -5.709 0.00 18.42 **PATB 122** ATOM 124 C25 P2 900 -7.549 104.530 15.681 0.00 18.42 **PATB 123** ATOM 125 C26 P2 900 -12.282 98.700 -7.5290.00 18.42 **PATB 124** ATOM 126 C27 P2 900 -26.656 99.410 33.268 0.00 18.42 **PATE 125** ATOM 127 C28 P2 900 -16.165 104.213 0.00 18.42 45.912 PATE 126 ATOM 128 C29 P2 900 -2.813 83.153 18.338 0.00 18.42 **PATB 127** ATOM 129 C30 P2 900 -34.453 80.437 26.490 0.00 18.42 **PATB 128** ATOM 130 C31 P2 900 -1.727 84.656 19.199 0.50 18.42 **PATB 129** ATOM 131 C32 P2 900 -20.508 103.867 -4.916 0.00 18.42 **PATB 130** ATOM 132 C33 P2 900 -7.054 74.136 8.546 0.00 18.42 PATB 131 ATOM 133 C34 P2 900 -13.747 106.911 0.58 17.54 3.686 **PATB 132** MOTA 134 C35 P2 900 -11.414 85.745 45.048 0.00 17.54 **PATB 133** MOTA 135 C36 P2 900 2.411 81.386 17.317 0.00 17.54 PATB 134 MOTA 136 C37 P2 900 -5.778 78.892 41.104 0.00 17.54 **PATB 135** MOTA 137 C38 P2 900 -14.215 96.356 34.379 0.00 17.54 **PATB 136** 

ATOM	138	C39	P2	900	-10.682	103.851	4.583	0.00 17.54	PATB 137
ATOM	139	C40	P2	900	-11.408	105.025	6.065	0.00 17.54	PATB 138
ATOM	140	C41	P2	900	-25.253	112.611	44.400	0.00 17.54	PATB 139
ATOM	141	C42	P2	900	-11.206	85.980	20.194	0.00 17.54	PATB 140
ATOM	142	C43	P2	900	-11.898	87.052	45.181	0.50 17.54	PATB 141
ATOM	143	C44	P2	900	-37.388	101.800	36.308	0.00 17.54	PATB 142
ATOM	144	C45	P2	900	-21.871	80.751	34.925	0.00 17.54	PATB 143
ATOM	145	C46	P2	900	-6.710	81.271	19.942	0.00 17.54	PATB 144
ATOM	146	C47		900	-13.008	74.720	9.821	0.00 16.67	PATB 145
ATOM	147	C48		900	-11.994	79.303	17.890	0.00 16.67	PATB 146
ATOM	148	C49		900	-5.336	77.655	40.320	0.00 16.67	PATB 147
ATOM	149	C50		900	-4.097	70.652	3.426	0.00 16.67	PATB 148
ATOM	150	C51		900	-12.734		-11.184	0.58 16.67	PATB 149
MOTA	151	C52		900		103.791	-4.585	0.00 16.67	PATB 150
MOTA	152	C53		900		107.606	57.924	0.00 16.67	PATB 151
ATOM	153 154	C54 C55		900		106.360	1.856	0.00 16.67	PATB 152
ATOM ATOM	155	C56		900 900	-21.392	101.131 75.949	21.922 42.503	0.00 16.67 0.00 16.67	PATB 153 PATB 154
ATOM	156	C57		900		101.166	35.104	0.00 16.67	PATE 154
ATOM	157	C58		900		102.313	37.447	0.00 16.67	PATE 156
ATOM	158	C59		900	-12.201		-11.267	0.50 15.79	PATB 157
ATOM	159	C60		900	-13.049	99.696	-6.251	0.00 15.79	PATE 158
ATOM	160	C61		900	-9.573	74.566	8.659	0.00 15.79	PATB 159
ATOM	161	C62		900		100.667	32.695	0.00 15.79	PATB 160
ATOM	162	C63	P2	900	-18.335	105.882	45.260	0.00 15.79	PATB 161
ATOM	163	C64	P2	900	-34.833	102.090	55.382	0.00 15.79	PATB 162
ATOM	164	C65	P2	900	-33.255	76.868	38.926	0.00 15.79	PATB 163
ATOM	165	C66	P2	900	-10.539	98.684	22.206	0.00 15.79	PATB 164
ATOM	166	C67	P2	900	-26.059	112.617	42.577	0.00 15.79	PATB 165
ATOM	167	C68		900		106.489	2.351	0.50 15.79	PATB 166
ATOM	168	C69		900	-8.866	83.779	20.813	0.00 15.79	PATB 167
MOTA	169	C70		900	-11.474	74.617	9.528	0.50 15.79	PATB 168
ATOM	170	C71		900	-5.328	81.990	20.362	0.00 15.79	PATB 169
ATOM	171	C72		900	-23.942	77.304	47.228	0.58 15.79	PATB 170
ATOM ATOM	172 173	C73		900 900	-12.590	102.488 74.408	-7.935 8.709	0.50 15.79 0.00 15.79	PATB 171 PATB 172
ATOM	174	C75		900		101.970	-9.169	0.00 15.79	PATB 172
ATOM	175	C76		900		102.919	-6.810	0.75 15.79	PATB 174
ATOM	176	C77		900	-33.357	79.641	26.358	0.00 15.79	PATB 175
ATOM	177	C78		900	-0.369	84.015	17.500	0.67 15.79	PATB 176
ATOM	178	C79	P2	900		106.054	4.280	0.58 14.91	PATE 177
ATOM	179	C80	P2	900	-34.026	75.990	39.928	0.00 14.91	PATB 178
ATOM	180	C81	P2	900	-38.979	101.876	37.140	0.50 14.91	PATB 179
MOTA	181	C82		900	-38.917	102.570	39.317	0.00 14.91	PATB 180
MOTA	182	C83		900	-10.017	99.651	22.277	0.00 14.91	PATB 181
ATOM	183	C84		900	-6.249	80.717	42.711	0.50 14.91	PATB 182
MOTA	184	C85		900	2.832	70.228	8.541	0.00 14.91	PATB 183
ATOM	185	C86		900		104.617	4.209	0.50 14.91	PATB 184
ATOM ATOM	186 187	C87		900 900		77.718 103.285	46.088 45.250	0.00 14.91 0.00 14.04	PATB 185 PATB 186
ATOM	188	C89		900	-10.510		43.775	0.00 14.04	PATB 187
ATOM	189	C90		900		100.670	3.374	0.00 14.04	PATB 188
ATOM	190	C91		900	-3.029		19.444	0.00 14.04	PATB 189
ATOM	191	C92		900		104.743	-4.382	0.00 14.04	PATB 190
ATOM	192	C93		900		102.504	54.137	0.50 14.04	PATB 191
ATOM	193	C94		900	-6.452	82.299	22.119	0.00 14.04	PATB 192
ATOM	194	C95		900		106.038	1.080	0.00 14.04	PATB 193
ATOM	195	C96	P2	900	-15.911	107.217	2.171	0.00 14.04	PATB 194
ATOM	196	C97	P2	900	-16.652	88.678	32.474	0.00 14.04	PATB 195
ATOM	197	C98	P2	900	-12.404	83.416	46.801	0.00 14.04	PATB 196
ATOM	198	C99		900		107.478	3.497	0.00 14.04	PATB 197
ATOM	199	Cl	P3	900	-8.233	86.155	21.517	0.00 14.04	PATB 198
ATOM	200	C2	P3	900	-23.768	98.395	31.692	0.00 14.04	PATB 199
MOTA	201	C3	P3	900		102.215	22.609	0.00 13.16	PATB 200
ATOM	202	C4	P3	900		101.043	22.803	0.00 13.16	PATB 201 PATB 202
ATOM ATOM	203 204	C5 C6	P3 P3	900 900	-12.501	106.350 87.779	5.593 43.586	0.00 13.16 0.00 13.16	PATE 202
ATOM	205	C7	P3	900	-5.343	70.391	2.844	0.58 13.16	PATB 203
ATOM	206	C8	P3	900	-10.286		19.813	0.00 13.16	PATB 205
ATOM	207	C9	P3	900	-4.609		35.742	0.00 13.16	PATB 206

ATOM	208	C10 P3	900	-24 939	111.640	42.063	0.00 13.16	DAMP 007
ATOM	209	C11 P3	900		106.173			PATB 207
ATOM	210	C12 P3	900			47.065	0.00 13.16	PATB 208
ATOM	211	C13 P3		-11.682	94.884	37.663	0.00 13.16	PATB 209
			900	-11.598	84.303	46.078	0.58 13.16	PATB 210
MOTA	212	C14 P3	900	2.288	82.755	19.434	0.00 13.16	PATB 211
MOTA	213	C15 P3	900	-40.296	100.451	35.703	0.50 13.16	PATB 212
ATOM	214	C16 P3	900	-11.413	84.948	20.563	0.00 13.16	PATB 213
ATOM	215	C17 P3	900	-11.944	95.996	36.931	0.00 13.16	PATB 214
MOTA	216	C18 P3	900	-13.577	78.900	17.074	0.00 13.16	PATB 215
ATOM	217	C19 P3	900	0.582	84.204	18.299	0.67 13.16	PATB 216
ATOM	218	C20 P3	900		109.464	58.512	0.00 13.16	PATB 217
ATOM	219	C21 P3	900		105.534	4.792	0.50 13.16	
ATOM	220	C22 P3	900					PATB 218
ATOM	221	C23 P3	900		101.662	4.129	0.50 13.16	PATB 219
ATOM	222	C24 P3		-32.638	76.990	36.782	0.00 13.16	PATB 220
			900	-13.801		-12.076	0.75 13.16	PATB 221
ATOM	223	C25 P3	900	-1.024	85.163	20.677	0.00 13.16	PATB 222
MOTA	224	C26 P3	900	-26.007	91.602	-6.006	0.00 13.16	PATB 223
ATOM	225	C27 P3	900	-23.227	77.961	46.956	0.58 13.16	PATB 224
ATOM	226	C28 P3	900	-7.260	81.464	21.540	0.00 13.16	PATB 225
ATOM	227	C29 P3	900	-11.934		-10.759	0.00 12.28	PATB 226
ATOM	228	C30 P3	900	-10.601	98.598	45.036	0.00 12.28	PATB 227
ATOM	229	C31 P3	900	-1.656	83.880	18.036	0.58 12.28	PATB 228
ATOM	230	C32 P3	900		104.132	5.182	0.50 12.28	
ATOM	231	C33 P3	900	-16.431	78.980			PATB 229
ATOM	232	C34 P3				-2.148	0.00 12.28	PATB 230
ATOM	233	C35 P3		-27.885	99.536	32.785	0.00 12.28	PATB 231
ATOM	234		900	-22.668	76.835	47.572	0.00 12.28	PATB 232
		C36 P3	900		103.237	3.460	0.58 12.28	PATB 233
ATOM	235	C37 P3	900	-8.135	82.607	21.040	0.50 12.28	PATB 234
ATOM	236	C38 P3	900	-21.580	103.742	-6.287	0.00 12.28	PATB 235
ATOM	237	C39 P3	900	-40.216	99.691	34.530	0.00 12.28	PATB 236
ATOM	238	C40 P3	900	-39.027	100.649	34.363	0.00 12.28	PATB 237
ATOM	239	C41 P3	900	-13.912	87.079	34.280	0.00 12.28	PATB 238
ATOM	240	C42 P3	900	-21.763		56.987	0.00 12.28	PATB 239
MOTA	241	C43 P3	900	-6.853	73.004	10.279	0.67 12.28	
MOTA	242	C44 P3	900		105.740			PATB 240
ATOM	243	C45 P3	900			13.601	0.00 12.28	PATB 241
ATOM	244	C46 P3		-42.943	98.993	35.388	0.58 12.28	PATB 242
			900	-6.609	82.468	20.661	0.50 12.28	PATB 243
ATOM	245	C47 P3	900		105.494	46.361	0.58 12.28	PATB 244
ATOM	246	C48 P3	900	-10.875	83.538	47.001	0.00 12.28	PATB 245
MOTA	247	C49 P3	900	-26.205	90.668	-4.804	0.00 12.28	PATB 246
ATOM	248	C50 P3	900	-13.048	78.479	18.300	0.50 12.28	PATB 247
ATOM	249	C51 P3	900	-11.266	100.046	22.772	0.50 12.28	PATB 248
ATOM	250	C52 P3	900	-24.643	111.819	43.420	0.50 12.28	PATB 249
ATOM	251	C53 P3	900	0.484	69.377	7.844	0.00 11.40	PATB 250
ATOM	252	C54 P3	900	-13.171	79.914	31.812	0.00 11.40	PATB 251
ATOM	253	C55 P3	900	-26.080	99.132	32.022	0.50 11.40	
ATOM	254	C56 P3	900					PATB 252
ATOM	255	C57 P3		-13.131		-7.413	0.00 11.40	PATB 253
ATOM			900	-16.712	80.625	-3.209	0.00 11.40	PATB 254
	256	C58 P3	900	-23.859		54.907	0.00 11.40	PATB 255
ATOM	257	C59 P3	900	-12.071		-6.347	0.00 11.40	PATB 256
ATOM	258	C60 P3	900	-8.546	81.305	20.732	0.00 11.40	PATB 257
ATOM	259	C61 P3	900	-19.123	103.084	-5.441	0.00 11.40	PATB 258
MOTA	260	C62 P3	900	-24.965	99.462	32.417	0.50 11.40	PATB 259
ATOM	261	C63 P3	900	-9.950	88.978	37.937	0.00 11.40	PATB 260
ATOM	262	C64 P3	900	-35.618	78.241	26.626	0.00 11.40	PATB 261
MOTA	263	C65 P3	900	3.345	70.757	9.755	0.00 11.40	PATB 262
ATOM	264	C66 P3	900	-0.592	85.010	18.460	0.58 11.40	PATB 263
ATOM	265	C67 P3	900		102.967			
ATOM	266	C68 P3	900	-26.371		15.000	0.00 11.40	PATB 264
ATOM	267	C69 P3				32.380	0.58 11.40	PATB 265
ATOM			900	-32.726	75.876	39.563	0.00 11.40	PATB 266
	268	C70 P3	900	-11.825	86.216	46.301	0.58 11.40	PATB 267
ATOM	269	C71 P3	900	-5.336	71.220	3.972	0.00 11.40	PATB 268
ATOM	270	C72 P3	900	-11.950	95.954	35.532	0.58 11.40	PATB 269
ATOM	271	C73 P3	900	-13.160	77.853	17.053	0.00 10.53	PATB 270
ATOM	272	C74 P3	900	2.421	82.577	18.052	0.58 10.53	PATB 271
ATOM	273	C75 P3	900	-25.270		33.181	0.00 10.53	PATB 272
ATOM	274	C76 P3	900	1.409	83.544	18.016	0.67 10.53	PATB 273
ATOM	275	C77 P3	900	-16.265		47.331	0.00 10.53	PATB 274
ATOM	276	C78 P3	900	-21.861		55.589	0.00 10.53	PATE 274
ATOM	277	C79 P3	900	-12.567	84.797	46.961	0.50 10.53	
***				12.007	04.151	40.301	0.00 10.00	PATB 276

ATOM	278	C80	РЗ	900	-9.696	84.555	21.631	0.67	10.53	PATB 27	17
ATOM	279	C81	РЗ	900	-20.660	103.262	-7.225	0.67	10.53	PATB 27	
MOTA	280		Р3	900	-0.118	84.950	21.214		10.53	PATB 27	
MOTA	281	C83		900	-6.323	71.380	2.992		10.53	PATB 28	
MOTA	282		P3	900	-26.365	97.934	31.357		10.53	PATB 28	
MOTA	283	C85 C86		900	-8.537 -3.633	73.363 69.505	10.195		10.53	PATB 28 PATB 28	
ATOM ATOM	284 285	C87	-	900 900	-3.633 -4.787	68.656	1.836 37.006		10.53	PATE 28	
ATOM	286	C88		900	-6.438	81.582	43.795		10.53	PATE 28	
ATOM	287	C89		900	-17.958	82.292	-4.245		10.53	PATB 28	
ATOM	288	C90		900	-17.544	81.390	-3.844		10.53	PATB 28	
ATOM	289	C91	P3	900	-9.928	82.132	20.961	0.00	10.53	PATB 28	8
ATOM	290	C92	PЗ	900	-33.828	76.993	36.890	0.00	10.53	PATB 28	
ATOM	291	C93		900		108.529	59.528		10.53	PATB 29	
MOTA	292		P3	900		104.552	16.534		10.53	PATB 29	
ATOM	293	C95		900	-11.531	88.240	46.042		10.53	PATE 29	
ATOM	294	C96		900	-16.142	81.382	-4.199		10.53	PATE 29	
ATOM ATOM	295 296	C97 C98	P3	900 900	-13.265 -10.516	92.075 85.659	48.840 21.369	0.75	10.53 9.65	PATB 29	
ATOM	297		P3	900		103.383	38.143	0.00	9.65	PATB 23	
ATOM	298	C1	P4	900	-13.026	95.682	34.678	0.50	9.65	PATB 29	
ATOM	299	C2	P4	900		104.133	15.407	0.50	9.65	PATB 29	
ATOM	300	СЗ	P4	900	-33.511	78.297	26.338	0.00	9.65	PATB 29	9
ATOM	301	C4	P4	900	-28.336	105.884	4.515	0.00	9.65	PATB 30	00
MOTA	302	C5	P4	900	-7.649	83.891	20.768	0.00	9.65	PATB 30	
MOTA	303	C6	₽4	900	2.153	83.829	20.546	0.00	9.65	PATE 30	
ATOM	304	C7	P4	900		106.590	3.031	0.67	9.65	PATB 30	
ATOM	305	C8	P4	900	-2.569	84.784	17.480	0.00	9.65	PATB 30	
ATOM ATOM	306 307	C9 C10	P4	900 900		105.003 103.635	3.806 46.823	0.58	9.65 9.65	PATB 30 PATB 30	
ATOM	308	C11		900	-33.104	79.701	25.196	0.00	9.65	PATE 30	
ATOM	309	C12		900		105.211	14.715	0.58	9.65	PATB 30	
ATOM	310	C13		900		101.369	35.493	0.50	9.65	PATB 30	
ATOM	311	C14	P4	900	-10.040	83.424	21.487	0.67	9.65	PATB 31	.0
ATOM	312	C15	P4	900	-30.245	103.672	4.320	0.58	9.65	PATB 31	
ATOM	313	C16		900		102.961	16.165	0.00	9.65	PATB 31	
ATOM	314	C17		900		104.978	6.084	0.00	9.65	PATB 31	
ATOM	315		P4	900		103.746	5.045	0.00	9.65	PATE 31	
ATOM ATOM	316 317	C19 C20		900 900	-25.582 -41.886	88.110 99.686	18.665 34.787	0.00	8.77 8.77	PATB 31 PATB 31	
ATOM	318	C21		900	-11.646	94.801	36.266	0.50	8.77	PATE 31	
ATOM	319	C22	P4	900		105.818	15.947	0.50	8.77	PATB 31	
ATOM	320		P4	900 "	-9.930	84.275	45.833	0.00	8.77	PATB 31	.9```
ATOM	321	C24	P4	900	-22.158	109.332	58.549	0.50	8.77	PATB 32	20
ATOM	322	C25	P4	900		101.807	36.150	0.50	8.77	PATB 32	
ATOM	323		P4	900	-7.672	73.032	9.144	0.58	8.77	PATB 32	
ATOM	324		P4	900		104.255	5.893	0.00	8.77	PATB 32	
ATOM ATOM	325	C28		900 900	-10.361 -5.317	80.848 76.535	20.395 41.345	0.00	8.77 8.77	PATB 32 PATB 32	
ATOM	326 327	C29 C30		900		101.946	53.636	0.67	8.77	PATB 32	
ATOM	328	C31		900		101.640	54.935	0.58	8.77	PATB 32	
ATOM	329	C32		900	-11.526		-11.858	0.00	8.77	PATB 32	28
ATOM	330	C33		900	-20.799	107.834	58.221	0.00	8.77	PATB 32	
ATOM	331	C34	P4	900	-42.106	98.339	34.477	0.00	8.77	PATB 33	
MOTA	332	C35		900		101.320	23.210	0.50	7.89	PATB 33	
ATOM	333	C36		900	-4.992	69.774	1.637	0.67	7.89	PATB 33	
ATOM	334	C37		900	-11.578	99.775	24.110	0.67	7.89 7.89	PATB 33	
ATOM ATOM	335 336	C38 C39		900 900	-10.328 -9.147		-12.100 22.408	0.75	7.89	PATE 33	
ATOM	337	C40		900	-13.117	97.068	34.507	0.00	7.89	PATE 33	
ATOM	338	C41		900	-7.778	73.406	7.523	0.00	7.89	PATB 33	
ATOM	339	C42		900	-9.675	96.639	44.664	0.00	7.89	PATB 33	
MOTA	340	C43		900		103.959	14.062	0.58	7.89	PATB 33	
ATOM	341	C44		.900	-4.155	67.778	36.010	0.00	7.89		
ATOM	342	C45		900	-34.528		26.547	0.00	7.89	PATE 34	
ATOM	343	C46		900	-7.432	83.078	23.356	0.00	7.89	PATB 34	
MOTA	344	C47		900		103.027	23.648	0.67	7.89 7.89	_	
ATOM ATOM	345 346	C48 C49		900 900	-6.259	72.031 102.482	4.230 -9.020	0.58	7.89		
ATOM	347	C50		900	-22.470	97.493	23.608	0.00	7.89	PATE 34	
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ATOM	348	C51		900	-9.022	88.480	39.981	0.00	7.89	PATB 347
ATOM	349	C52		900	-12.568		34.549	0.50	7.89	PATB 348
ATOM	350	C53		900	-21.537		47.452	0.00	7.89	PATB 349
ATOM	351	C54		900	1.804		8.223	0.67	7.89	PATB 350
ATOM ATOM	352 353	C55 C56		900	-17.095		31.480	0.00	7.02	PATB 351
ATOM	354	C57		900 900		104.827	-5.897	0.58	7.02	PATB 352
ATOM	355	C58		900	-7.537 -23.708		21.962	0.50	7.02	PATB 353
ATOM	356	C59		900		99.774	31.460	0.58	7.02	PATB 354
ATOM	357	C60		900	-11.070		45.835 21.771	0.75 0.75	7.02	PATB 355
ATOM	358	C61		900		106.045	3.489	0.73	7.02	PATB 356
ATOM	359	C62		900	-12.611		7.929	0.00	7.02	PATB 357 PATB 358
ATOM	360	C63		900	-4.167		35.055	0.00	7.02	PATE 350
ATOM	361	C64	P4	900	-8.577		38.852	0.00	7.02	PATE 360
ATOM	362	C65	P4	900	-15.051		23.948	0.00	7.02	PATE 361
ATOM	363	C66	P4	900	-10.214	104.188	22.951	0.00	7.02	PATB 362
ATOM	364	C67	P4	900	-20.875	108.444	55.444	0.00	7.02	PATB 363
MOTA	365	C68		900	-41.564	100.017	36.108	0.58	7.02	PATB 364
ATOM	366	C69		900	-27.157		-6.001	0.50	7.02	PATB 365
ATOM	367	C70		900		101.827	23.941	0.58	7.02	PATB 366
ATOM ATOM	368	C71		900	-33.146		37.751	0.50	7.02	PATB 367
ATOM	369 370	C72		900 900	-10.301		44.097	0.00	6.14	PATB 368
ATOM	371	C74		900		108.027	3.238	0.58	6.14	PATB 369
ATOM	372	C75		900		110.189	-5.666	0.50	6.14	PATB 370
ATOM	373	C76		900	-12.071		57.630 19.280	0.00	6.14	PATB 371
ATOM	374	C77		900	-15.803		31.530	0.58	6.14 6.14	PATB 372 PATB 373
ATOM	375			900	-6.466		2.008	0.75	6.14	PATE 373
ATOM	376	C79	P4	900	-1.436		18.966	0.00	6.14	PATE 375
ATOM	377	C80	P4	900	-10.777		9.904	0.75	6.14	PATE 376
MOTA	378	C81		900	-23.265	109.584	59.368	0.00	6.14	PATB 377
MOTA	379	C82		900	-21.638	108.828	59.748	0.00	6.14	PATB 378
ATOM	380	C83		900	-11.809	92.480	49.124	0.00	6.14	PATB 379
MOTA	381	C84		900		103.844	-7.962	0.75	6.14	PATB 380
ATOM	382	C85		900	-8.932		8.315	0.58	6.14	PATB 381
ATOM	383	C86		900	3.595		8.176	0.67	6.14	PATB 382
ATOM ATOM	384 385	C87	P4	900	-12.068		34.935	0.67	6.14	PATB 383
ATOM	386	C89		900 900	-15.598		24.055	0.00	6.14	PATB 384
ATOM	387	C90		900	-10.709	107.569 85.377	15.292 46.208	0.75	6.14	PATB 385
ATOM	388	C91		900	-9.628		42.940	0.67 0.00	6.14 6.14	PATB 386 PATB 387
ATOM	389	C92	P4	900	-9.410		9.618	0.67	6.14	PATE 388
ATOM	390	C93	P4	900	-11.845		21.777	0.83	6.14	 PATE 389
ATOM	391	C94	P4	900	-24.656	100.425	32.260	0.50	6.14	PATB 390
ATOM	392	C95	P4	900	-30.444	101.829	5.455	0.00	6.14	PATB 391
ATOM	393	C96		900	-32.447	78.702	25.485	0.00	6.14	PATB 392
ATOM	394	C97	P4	900		110.191	55.675	0.00	6.14	PATB 393
ATOM	395	C98		900	-9.943		45.968	0.00	6.14	PATB 394
ATOM ATOM	396	C99		900		101.950	34.084	0.67	6.14	PATB 395
ATOM	397 398	C1 C2	P5 P5	900 900		110.185	59.590	0.50	6.14	PATB 396
ATOM	399	C3	P5	900	-14.265	100.239 97.402	23.769	0.58	6.14	PATE 397
ATOM	400	C4	P5	900	0.259		24.906 17.376	0.00 0.75	6.14 5.26	PATB 398 PATB 399
ATOM	401	C5	P5	900	-13.227		34.391	0.00	5.26	PATE 400
ATOM	402	C6	P5	900	-10.557		45.072	0.00	5.26	PATE 401
ATOM	403	C7	P5	900		107.270	0.837	0.58	5.26	PATB 402
ATOM	404	C8	P5	900	-12.440		19.823	0.75	5.26	PATB 403
ATOM	405	C9	P5	900	-41.509	99.125	33.561	0.00	5.26	PATB 404
ATOM	406	C10		900	-11.420	73.518	8.662	0.67	5.26	PATB 405
ATOM	407	C11		900		103.556	<del>-</del> 7.760	0.83	5.26	PATB 406
ATOM	408	C12		900	-11.466		20.220	0.50	5.26	PATB 407
ATOM ATOM	409	C13		900	-11.339		20.342	0.67	5.26	PATB 408
ATOM	410 411	C14 C15		900	-27.250		31.554	0.67	5.26	PATB 409
ATOM	411	C16		900 900	-15.843		-3.925	0.67	5.26	PATE 410
ATOM	413	C17		900	-12.269	100.778 85.666	23.419 17.609	0.75 0.67	5.26	PATE 411
ATOM	414	C18		900	-12.727			0.67	5.26 5.26	PATB 412 PATB 413
ATOM	415	C19		900		103.094	36.632	0.58	5.26	PATE 413
ATOM	416	C20		900	-9.931		47.205	0.67	5.26	PATE 415
ATOM	417	C21	P5	900	-8.311		21.641	0.50	5.26	PATB 416

ATOM	418	C22 P5	900	-11.697 90.456	-12.110	0.58	5.26	PATB 417
ATOM	419	C23 P5	900	-40.355 101.083	34.455	0.58	5.26	PATB 418
ATOM	420	C24 P5	900	-14.396 81.622	31.561	0.00	5.26	PATB 419
ATOM	421	C25 P5	900	-35.633 103.110	55.360	0.00	5.26	PATB 420
MOTA	422	C26 P5	900	-27.807 94.134	-6.608	0.58	5.26	PATB 421
MOTA	423	C27 P5	900	-43.009 98.228	33.745	0.00	5.26	PATB 422
ATOM	424	C28 P5	900	-22.534 109.021	60.402	0.00	5.26	PATB 423
ATOM	425	C29 P5	900	-14.572 107.626	2.177	0.50	5.26	PATB 424
ATOM	426 427	C30 P5 C31 P5	900 900	-6.452 82.252 -14.390 85.246	42.727 47.775	0.00	5.26 5.26	PATB 425 PATB 426
ATOM ATOM	428	C31 P5	900	1.367 69.512		0.00	5.26	PATB 427
ATOM	429	C33 P5	900	-0.091 69.192		0.00	5.26	PATB 428
ATOM	430	C34 P5	900	-14.289 98.829	24.398	0.50	5.26	PATB 429
ATOM	431	C35 P5	900	-21.027 103.336		0.67	4.39	PATB 430
MOTA	432	C36 P5	900	4.208 70.204	8.801	0.50	4.39	PATB 431
ATOM	433	C37 P5	900	-33.722 75.584	38.624	0.50	4.39	PATB 432
ATOM	434	C38 P5	900	-6.257 102.844	13.283	0.00	4.39	PATE 433
ATOM	435	C39 P5	900	2.520 83.860		0.67	4.39	PATB 434
ATOM	436	C40 P5	900	-12.988 91.080		0.00	4.39	PATB 435
ATOM	437	C41 P5	900	-26.849 87.843		0.58	4.39	PATB 436
ATOM	438	C42 P5	900	-32.317 110.017	59.471	0.58 0.00	4.39 4.39	PATB 437 PATB 438
ATOM ATOM	439 440	C43 P5 C44 P5	900 900	-14.602 100.111 -31.425 110.839	23.929 58.772	0.50	4.39	PATB 430
ATOM	441	C45 P5	900	-8.848 83.597	22.201	0.58	4.39	PATB 440
ATOM	442	C46 P5	900	-8.769 88.653	38.615	0.50	4.39	PATB 441
ATOM	443	C47 P5	900	-11.799 106.902	4.515	0.67	4.39	PATB 442
ATOM	444	C48 P5	900	-29.694 110.839		0.00	4.39	PATB 443
ATOM	445	C49 P5	900	-5.400 67.361	34.406	0.50	4.39	PATB 444
ATOM	446	C50 P5	900	-34.348 78.536	25.242	0.50	4.39	PATB 445
ATOM	447	C51 P5	900	-9.399 98.011	44.622	0.50	4.39	PATB 446
ATOM	448	C52 P5	900	-34.349 76.143		0.00	4.39	PATB 447
ATOM	449	C53 P5	900	-27.843 92.042		0.00	4.39	PATB 448
ATOM	450	C54 P5	900	-20.931 104.517		0.67	4.39	PATB 449 PATB 450
ATOM ATOM	451 452	C55 P5 C56 P5	900 900	-17.130 81.631 -11.560 97.292		0.50	4.39 4.39	PATE 450
ATOM	453	C50 P5	900	-23.908 112.817		0.67	4.39	PATB 452
ATOM	454	C58 P5	900	-12.619 106.356		0.75	4.39	PATB 453
ATOM	455	C59 P5	900	-7.688 106.955		0.00	4.39	PATB 454
ATOM	456	C60 P5	900	-11.279 84.778		0.58	4.39	PATB 455
MOTA	457	C61 P5	900	-7.466 106.441	14.759	0.67	4.39	PATB 456
ATOM	458	C62 P5	900	-15.605 104.568		0.00	4.39	PATB 457
ATOM.	459	_C63_P5_	900 _	-4.684 66.486		0.50	4.39	PATB 458
ATOM	460	C64 P5	900	-12.814 80.184		0.00	4.39	PATB 459
ATOM	461	C65 P5	900	-4.951 66.096		0.58	3.51	PATB 460
ATOM	462	C66 P5	900	-10.181 104.173 -15.586 90.646		0.83	3.51 3.51	PATB 461 PATB 462
ATOM ATOM	463 464	C67 P5	900 900	-15.586 90.646 -11.655 102.233		0.75	3.51	PATE 463
ATOM	465	C69 P5	900	-16.982 80.318		0.50	3.51	PATB 464
ATOM	466	C70 P5	900	-22.071 105.170		0.00	3.51	PATB 465
ATOM	467	C71 P5	900	-14.048 95.933		0.00	3.51	PATB 466
ATOM	468	C72 P5	900	-42.721 99.545	34.121	0.50	3.51	PATB 467
ATOM	469	C73 P5	900	-15.210 105.009		0.50	3.51	PATB 468
ATOM	470	C74 P5	900	-10.462 99.173		0.58	3.51	PATB 469
ATOM	471	C75 P5	900	-5.644 103.287		0.58	3.51	PATB 470
ATOM	472	C76 P5	900	-13.589 91.454		0.50 0.67	3.51 3.51	PATB 471 PATB 472
ATOM ATOM	473 474	C77 P5 C78 P5	900 900	-36.651 102.820 -8.384 88.851		0.00	3.51	PATE 473
ATOM	475	C79 P5	900	-34.903 75.147		0.58	3.51	PATB 474
ATOM	476	C80 P5	900	-27.190 90.891		0.50	3.51	PATB 475
ATOM	477	C81 P5	900	-15.134 80.557		0.00	3.51	PATB 476
ATOM	478	C82 P5	900	-30.322 103.280		0.58	3.51	PATB 477
ATOM	479	C83 P5	900	-22.464 110.770	54.781	0.83	3.51	PATB 478
ATOM	480	C84 P5	900	-8.748 95.719		0.00	3.51	PATB 479
MOTA	481	C85 P5	900	-13.350 78.725		0.75	3.51	PATB 480
ATOM	482	C86 P5	900	-5.013 77.863		0.50	3.51	PATB 481
ATOM	483	C87 P5	900	-24.912 113.169		0.58	3.51 3.51	PATB 482 PATB 483
ATOM ATOM	484	C88 P5 C89 P5	900	-15.530 105.701		0.92 0.58	3.51	PATE 484
ATOM	485 486	C90 P5	900 900	-20.870 109.216 -4.006 67.476		0.00	3.51	PATB 485
ATOM	487	C90 P5	900	-14.448 79.357		0.50	3.51	PATB 486
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ATOM	488	C92 P5	900	-4.949 103.626	15.628	0.67	3.51	PATB 487
ATOM	489	C93 P5	900	-30.468 111.837	58.553	0.00	3.51	PATB 488
ATOM	490	C94 P5	900	-11.047 86.950	46.288	0.58	2.63	PATB 489
ATOM	491	C95 P5	900	-12.705 107.738	4.121	0.67	2.63	PATB 490
ATOM	492	C96 P5	900	-5.828 105.084	13.715	0.67	2.63	PATB 491
MOTA	493	C97 P5	900	2.548 83.693	17.215	0.75	2.63	PATB 492
ATOM	494	C98 P5	900	1.567 85.090	17.846	0.00	2.63	PATB 493
ATOM ATOM	495 496	C99 P5 C1 P6	900	-30.944 102.669	4.452	0.58	2.63	PATB 494
ATOM	497	C1 P6 C2 P6	900 900	-10.471 85.233 -29.675 104.998	22.702 3.145	0.83	2.63	PATB 495
ATOM	498	C3 P6	900	-30.828 102.227	3.145	0.58 0.67	2.63 2.63	PATB 496 PATB 497
ATOM	499	C4 P6	900	-2.018 85.867	20.118	0.00	2.63	PATB 497
ATOM	500	C5 P6	900	-7.558 71.197	2.359	0.83	2.63	PATB 499
ATOM	501	C6 P6	900	-15.717 97.424	24.894	0.00	2.63	PATB 500
MOTA	502	C7 P6	900	-10.751 96.171	36.220	0.67	2.63	PATB 501
MOTA	503	C8 P6	900	-4.879 80.636	42.986	0.58	2.63	PATB 502
ATOM ATOM	504 505	C9 P6	900	-11.506 77.256	20.621	0.83	2.63	PATB 503
MOTA	505	C10 P6 C11 P6	900 900	-31.286 109.217 -6.755 104.693	60.538	0.00	2.63	PATB 504
MOTA	507	C12 P6	900	-8.074 87.815	12.741 40.234	0.00	2.63	PATB 505
ATOM	508	C13 P6	900	-30.784 100.667	3.498	0.00	2.63	PATB 506 PATB 507
ATOM	509	C14 P6	900	-16.876 88.474	31.107	0.58	2.63	PATE 508
MOTA	510	C15 P6	900	-9.860 104.964	4.792	0.50	2.63	PATB 509
ATOM	511	C16 P6	900	-12.867 83.254	21.098	0.00	2.63	PATB 510
ATOM	512	C17 P6	900	-11.409 104.148	23.679	0.75	2.63	PATB 511
ATOM	513	C18 P6	900	-7.921 72.106	10.164	0.75	2.63	PATB 512
ATOM ATOM	514	C19 P6	900	-12.306 73.511	9.746	0.58	2.63	PATB 513
ATOM	515 516	C20 P6 C21 P6	900 900	-16.903 106.551 -12.973 86.604	47.191	0.67	2.63	PATB 514
ATOM	517	C22 P6	900	1.148 69.090	33.445 9.460	0.00 0.50	2.63 2.63	PATB 515 PATB 516
ATOM	518	C23 P6	900	-19.853 103.750	-8.260	0.75	1.75	PATB 510
ATOM	519	C24 P6	900	-13.312 80.950	31.215	0.00	1.75	PATB 518
MOTA	520	C25 P6	900	-21.830 110.003	57.365	0.67	1.75	PATB 519
ATOM	521	C26 P6	900	-12.451 84.251	21.989	0.92	1.75	PATB 520
ATOM ATOM	522 523	C27 P6 C28 P6	900	-9.294 72.404	11.005	0.00	1.75	PATB 521
ATOM	524	C28 P6	900 900	-8.205 84.534 2.707 69.900	23.018	1.00	1.75	PATE 522
ATOM	525	C30 P6	900	-15.920 106.756	10.659 46.215	0.67 0.83	1.75 1.75	PATB 523 PATB 524
ATOM	526	C31 P6	900	-27.553 91.895	-6.679	0.58	1.75	PATB 525
ATOM	527	C32 P6	900	-7.510 88.180	39.005	0.58	1.75	PATB 526
MOTA	528	C33 P6	900	-16.295 77.140	-2.762	0.00	1.75	PATB 527
MOTA	529	C34 P6	900	-16.411 89.514	30.293	0.67	1.75	PATB 528
ATOM:	530	C35 P6	900	-17.335 78.077	-2.721	0.50	1.75	PATB 529
ATOM ATOM	531 532	C36 P6 C37 P6	900	-5.461 81.042	44.193	0.00	1.75	PATB 530
ATOM	533	C38 P6	900 900	-0.071 69.215 -8.673 96.879	10.137	0.00	1.75	PATB 531
ATOM	534	C39 P6	900	-8.002 87.889	45.612 37.727	0.50 0.67	1.75 1.75	PATB 532 PATB 533
ATOM	535	C40 P6	900	-24.982 113.009	41.773	0.67	1.75	PATB 533
MOTA	536	C41 P6	900	-5.283 69.692	0.270	0.83	1.75	PATB 535
MOTA	537	C42 P6	900	-14.981 98.421	25.545	0.58	1.75	PATB 536
ATOM	538	C43 P6	900	-19.970 108.202	54.751	0.00	1.75	PATB 537
ATOM ATOM	539 540	C44 P6 C45 P6	900	-16.574 108.001	0.761	0.00	1.75	PATB 538
ATOM	541	C45 P6	900 900	-41.434 101.182 -19.597 104.153	35.342	0.67	1.75	PATB 539
ATOM	542	C47 P6	900	-19.875 106.255	-7.033 -5.182	0.75 0.00	1.75 1.75	PATB 540 PATB 541
ATOM	543	C48 P6	900	-14.428 104.087	45.706	0.00	1.75	PATB 542
MOTA	544	C49 P6	900	-20.955 109.208	56.615	0.50	1.75	PATB 543
MOTA	545	C50 P6	900	-12.311 84.056	48.121	0.00	1.75	PATB 544
MOTA	546	C51 P6	900	-25.115 98.419	31.191	0.00	1.75	PATB 545
ATOM	547	C52 P6	900	-10.184 72.861	8.682	0.75	1.75	PATB 546
ATOM ATOM	548 549	C53 P6 C54 P6	900	-5.902 66.998 -16.130 78.396	35.662	0.00	0.88	PATB 547
ATOM	550	C54 P6	900 900	-16.139 78.386 -12.792 107.489	-3.382	0.58	0.88	PATB 548
ATOM	551	C56 P6	900	-12.792 107.489 -13.650 108.716	2.373 4.453	0.67 0.00	0.88 0.88	PATB 549 PATB 550
ATOM	552	C57 P6	900	-13.055 85.239	48.196	0.58	0.88	PATE 550
MOTA	553	C58 P6	900	-28.857 106.043	2.699	0.00	0.88	PATB 551
ATOM	554	C59 P6	900	-9.471 98.661	45.860	0.58	0.88	PATB 553
ATOM	555	C60 P6	900	-16.045 80.802	~5.469	0.58	0.88	PATB 554
ATOM	556 557	C61 P6	900	-33.979 77.226	25.568	0.58	0.88	PATB 555
ATOM	557	C62 P6	900	-26.703 88.794	19.151	0.50	0.88	PATB 556

ATOM	558	C63	P6	900	-11.088	83.048	22.337	0.83	0.88	PATB 557
MOTA	559	C64	P6	900	-33.825	79.604	24.503	0.00	0.88	PATB 558
MOTA	560	C65	Р6	900	-42.412		32.760	0.00	0.88	PATB 559
ATOM	561	C66	P6	900		105.806	47.559	0.58	0.88	PATB 560
ATOM	562	C67	P6	900	3.645	83.028	18.561	0.83	0.88	PATB 561
ATOM	563	C68	P6	900	-37.972	102.548	35.279	0.58	0.88	PATB 562
ATOM	564	C69	Р6	900	-5.053	104.779	14.840	0.75	0.88	PATB 563
MOTA	565	C70	Р6	900	-17.024	79.272	-3.382	0.58	0.88	PATB 564
ATOM	566	C71	Р6	900	-30.127	105.041	4.589	0.67	0.88	PATB 565
ATOM	567	C72		900	3.344	69.376	9.528	0.58	0.88	PATB 566
ATOM	568	C73		900		106.564	2.231	0.83	0.88	PATB 567
ATOM	569	C74		900		105.345	15.913	0.58	0.88	PATB 568
MOTA	570	C75		900		102.399	34.895	0.67	0.88	PATB 569
MOTA	571	C76	-	900		110.597	58.546	0.67	0.88	PATB 570
ATOM	572	C77		900	-6.362	70.757	4.549	0.00	0.88	PATB 571
ATOM	573	C78		900		107.312	1.234	0.58	0.88	PATB 572
ATOM	574	C79		900		110.246	55.998	0.75	0.88	PATE 573
ATOM	575	C80		900	-11.385	84.265	23.134	0.92	0.88	PATB 574
ATOM	576	C81		900		100.453	33.854	0.58	0.88	PATB 575
ATOM	577	C82		900		106.175	4.479	0.67	0.88	PATB 576
ATOM	578	C83		900		105.313	23.673	0.92	0.88	PATB 577
ATOM	579	C84		900	2.696	68.076	7.894	0.83	0.88	PATB 578
ATOM	580	C85		900	-5.960	69.193	2.466	0.75	0.88	PATB 579
MOTA	581	C86		900	-7.463	71.090	3.751	0.75	0.88	PATB 580
MOTA	582	C87		900	-11.986	85.976	47.671	0.67	0.88	PATB 581
ATOM ATOM	583 584	C88 C89		900	-12.588	91.733	50.016	0.50	0.00	PATB 582
ATOM	585	C90		900 900	-35.299 -8.725	77.034	25.992	0.67	0.00	PATE 583
ATOM	586	C91		900		88.992 105.482	37.258	0.75 0.83	0.00	PATB 584
ATOM	587	C92		900		103.482	-6.853 24.935	0.75	0.00	PATB 585 PATB 586
ATOM	588	C93		900	-13.495	87.882	33.213	0.73	0.00	PATE 587
ATOM	589	C94		900	-5.432	81.839	42.529	0.00	0.00	PATB 588
ATOM	590	C95		900	-27.548	89.054	18.066	0.00	0.00	PATB 589
ATOM	591	C96		900	-13.544	77.447	19.106	0.83	0.00	PATB 590
ATOM	592	C97		900	3.297	83.672	19.755	0.75	0.00	PATB 591
ATOM	593	C98		900		109.952	54.813	0.92	0.00	PATB 592
ATOM	594	C99	₽6	900		112.507	42.445	0.67	0.00	PATB 593
ATOM	595	C1	₽7	900	-27.190	89.967	18.561	0.00	0.00	PATB 594
ATOM	596	C2	P7	900	-13.152	95.076	33.422	0.58	0.00	PATB 595
ATOM	597	C3	P7	900	-10.953	101.159	24.600	0.67	0.00	PATB 596
ATOM	598	C4	₽7	900	2.028	68.055	9.124	0.75	0.00	PATB 597
MOTA	599	C5	P7	900	~6.739	107.355	15.532	0.83	0.00	PATB 598
ATOM	600		₽7	900	-10.801	95.235	35.180	0.75	0.00	PATB 599
ATOM	601		P7	900		102.925	35.489	0.67	0.00	PATB 600
ATOM	602		P7	900	-12.419	79.068	20.633	0.67	0.00	PATB 601
ATOM	603		P7	900		108.440	57.262	0.67	0.00	PATB 602
ATOM	604	C10		900		103.031	24.478	0.83	0.00	PATB 603
ATOM	605	C11		900		105.563	17.220	0.00	0.00	PATB 604
ATOM	606	C12		900		70.058	3.360	0.67	0.00	PATB 605
ATOM	607	C13		900		101.421	31.813	0.67	0.00	PATB 606
ATOM	608	C14		900		103.775	47.938	0.00	0.00	PATE 607
ATOM	609	C15		900		83.894	22.806	0.75	0.00	PATB 608
ATOM	610 611	C16		900	-28.513		-6.265	0.67	0.00	PATB 609
MOTA MOTA	611 612	C17 C18		900 900	-9.441	84.873	23.579	0.92	0.00	PATE 610
ATOM	613	C18		900	-22.028	78.059	59.663	0.58	0.00	PATB 611 PATB 612
ATOM	614	C20		900		102.045	40.276 34.380	0.00 0.58	0.00	PATE 612 PATE 613
ATOM	615	C21		900		110.683	56.921	0.83	0.00	PATE 613
ATOM	616	C22		900		75.080	37.843	0.67	0.00	PATE 615
ATOM	617	C23		900	-11.212		-12.819	0.67	0.00	PATE 616
ATOM	618	C24		900		106.789	-0.048	0.67	0.00	PATE 617
ATOM	619	C25		900	0.795		8.471	0.58	0.00	PATE 618
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